

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam C MD (Pa CEO & Consultant Pat	thology)
NAME AGE/ GENDER	: Miss. PRATIMA : 24 YRS/FEMALE	PATI	ENT ID :	: 1763762
COLLECTED BY	:			: 012502200004
REFERRED BY BARCODE NO.	: : 01525805			: 20/Feb/2025 08:45 AM : 20/Feb/2025 08:49AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB			: 20/Feb/2025 11:01AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA	ASTHYA WELLNI	ESS PANEL: 1.2	
	C	OMPLETE BLOOD	COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDIC	<u>ES</u>		
HAEMOGLOBIN (H	B)	9.7 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (4.48	Millions/cm	am 3.50 - 5.00
by HYDRO DYNAMIC F ACKED CELL VOL	OCUSING, ELECTRICAL IMPEDENCE	32 ^L	%	37.0 - 50.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZ	'ER		
	AR VOLUME (MCV) utomated hematology analyz	71.3^L	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	21.6^L	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MC	CHC) 30.3^L	g/dL	32.0 - 36.0
•	UTOMATED HEMATOLOGY ANALYZ UTION WIDTH (RDW-CV)	^{ER} 17.2 ^H	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZ UTION WIDTH (RDW-SD)	ER 45.8	fL	35.0 - 56.0
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZ		IL	55.0 - 56.0
MENTZERS INDEX by CALCULATED		15.92	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INI)FX	27.31	RATIO	>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED		£7.01	MAILO	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
<u> WHITE BLOOD CE</u>	LLS (WBCS)			
FOTAL LEUCOCYT	E COUNT (TLC) y by sf cube & microscopy	8290	/cmm	4000 - 11000
NUCLEATED RED E	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
•	RT HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
	UTOMATED HEMATOLOGY ANALYZ		<i>,</i> 0	× 10 /0





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NAME

AGE/ GENDER

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CLIENT CODE.



MD (Pathology)

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:012502200004

: 20/Feb/2025 08:45 AM

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: 20/Feb/2025 11:01AM

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant Pathologist : Miss. PRATIMA **PATIENT ID** : 24 YRS/FEMALE REG. NO./LAB NO. : **REGISTRATION DATE** : **COLLECTION DATE** :01525805 : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	60	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	31	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS by flow cytometry by SF cube & microscopy ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4974	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	2570	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	414	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	332	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	232000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.34	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	15 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	144000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	62 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.4	%	15.0 - 17.0



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Fest Name		Value	Unit	Biological Reference interval	
nmune disease, but . An ESR can be affe s C-reactive protein . This test may also ONDITION WITH LO low ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactive . Generally, ESR doe . CRP is not affected . If the ESR is elevat . Women tend to ha . Drugs such as dexi	does not tell the health practitioner acted by other conditions besides inf be used to monitor disease activity ematosus W ESR In with conditions that inhibit the non inficantly high white blood cell coun le cell anaemia) also lower the ESR. In protein (C-RP) are both markers of es not change as rapidly as does CRP by as many other factors as is ESR, r ed, it is typically a result of two type we a higher ESR. and menstruation a	r exactly where lammation. For and response to prmal sedimenta t (leucocytosis) f inflammation. c, either at the s making it a bette es of proteins, g and pregnancy c;	the inflammation is in the this reason, the ESR is ty o therapy in both of the a ation of red blood cells, s , and some protein abno tart of inflammation or a er marker of inflammation lobulins or fibrinogen. an cause temporary eleva	picallý used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n .	





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Test Name			Value	Unit	Biological Reference interval
		CLINIC	CAL CHEMIST	RY/BIOCHEMIST	'RY
			GLUCOSE	FASTING (F)	
GLUCOSE FASTING		OD-POD)	122.29 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

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



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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	F · BASIC	
CHOLESTEROL TO	TAL·SERUM	163.35	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O		100.00	ing/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	SERUM PHATE OXIDASE (ENZYMATIC)	85.55	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	DL (DIRECT): SERUM TION	51.77	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		94.47	mg/dL	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	TEROL: SERUM ECTROPHOTOMETRY	111.58	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
VIDI CHOLECTED	OL CEDIM	1711	TL / ** **	VERY HIGH: $> OR = 220.0$
VLDL CHOLESTER(by CALCULATED, SPE	UL: SERUM ECTROPHOTOMETRY	17.11	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF	RUM	412.25	mg/dL	350.00 - 700.00
CHOLESTEROL/HI	ECTROPHOTOMETRY DL RATIO: SERUM ECTROPHOTOMETRY	3.16	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		1.82	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.65 ^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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN TOTAL		0.54	TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT	Г (CONJUGATED): SERUM	0.11	mg/dL	ADULT: 0.00 - 1.20 0.00 - 0.40
	SPECTROPHOTOMETRY	0.43		0.10 - 1.00
	ECT (UNCONJUGATED): SERUM	0.43	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	14.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	11.1	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	1.31	RATIO	0.00 - 46.00
ALKALINE PHOSPI by Para Nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	63.15	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	11.88	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.39	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.27	gm/dL	3.50 - 5.50

3.12 **GLOBULIN: SERUM** by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.37 by CALCULATED, SPECTROPHOTOMETRY

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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gm/dL

RATIO

2.30 - 3.50

1.00 - 2.00

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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).

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
	KIDNI	EY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	19.9	mg/dL	10.00 - 50.00
CREATININE: SERU	JM	0.81	mg/dL	0.40 - 1.20
•	OGEN (BUN): SERUM	9.3	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	11.48	RATIO	10.0 - 20.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ by CALCULATED, SPE		24.57	RATIO	
URIC ACID: SERUM	[2.71	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM by ARSENAZO III, SPE		10.19	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		3.27	mg/dL	2.30 - 4.70
ELECTROLYTES	ATE, OF EOTHOR HOTOMETRY			
SODIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	139.9	mmol/L	135.0 - 150.0
POTASSIUM: SERU by ISE (ION SELECTIV	M	3.86	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	[104.93	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	103.9		

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	Uni	t	Biologica	al Reference	e interva
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia 	(e.g. ureter colostomy) ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportionat superimposed on renal dise	s) ININE LEVELS: ely more than creatin ease.	ine) (e.g. obstructive	uropathy).			
 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 disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<' Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther 	ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Id starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure.	s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini se increase in creatini io). ine measurement).	cellular fluid). lar secretion of urea. ne).			nal ratio wher	n dehydra
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 disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1	ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fail creased BUN/creatinine rat apy (interferes with creatin ULAR FILTERATION RATE: DESCRIPT	s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini io). ine measurement). ON GFR (n function	cellular fluid). lar secretion of urea. ne). ne with certain meth nL/min/1.73m2) >90	nodologies,resu	FINDINGS	nal ratio wher	n dehydra
 Reduced muscle mu	ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fai creased BUN/creatinine rat apy (interferes with creatin ILAR FILTERATION RATE: Normal kidney Kidney damag	s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini io). ine measurement). ON GFR (n function	cellular fluid). lar secretion of urea. ne). ne with certain meth	nodologies,resu ASSOCIATEE No prot Presence o	FINDINGS einuria f Protein ,	nal ratio wher	n dehydra
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 disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL G1 G2	ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fail creased BUN/creatinine rat apy (interferes with creatin pLAR FILTERATION RATE: Normal kidney Kidney damag normal or hig	s) ININE LEVELS: ely more than creatini- ease. : diffuses out of extrace absent in blood). harmone) due to tubu TININE: of creatine to creatini- io). ine measurement). ON GFR (n function ge with gh GFR	cellular fluid). lar secretion of urea. ne). ne with certain meth nL/min/1.73m2) >90 >90	nodologies,resu ASSOCIATEE No prot	FINDINGS einuria f Protein ,	nal ratio wher	n 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 disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1 G2 G3a	ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fail creased BUN/creatinine rat apy (interferes with creatin ILAR FILTERATION RATE: DESCRIPTI Normal kidney Kidney damag normal or hig Mild decrease	s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini io). ine measurement). ON GFR (n function ge with h GFR	cellular fluid). lar secretion of urea. ne). ne with certain meth nL/min/1.73m2) >90 >90 60 -89	nodologies,resu ASSOCIATEE No prot Presence o	FINDINGS einuria f Protein ,	nal ratio wher	n dehydra
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1 G2	ass (subnormal creatinine p tetracycline, glucocorticoid 0:1) WITH ELEVATED CREAT (BUN rises disproportional superimposed on renal dise 0:1) WITH DECREASED BUN osis. Ind starvation. 2. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic 0:1) WITH INCREASED CREA py (accelerates conversion eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fail creased BUN/creatinine rat apy (interferes with creatin pLAR FILTERATION RATE: Normal kidney Kidney damag normal or hig	s) ININE LEVELS: ely more than creatini ease. : diffuses out of extract absent in blood). harmone) due to tubu TININE: of creatine to creatini io). ine measurement). ON GFR (n function ge with h GFR ase in GFR	cellular fluid). lar secretion of urea. ne). ne with certain meth nL/min/1.73m2) >90 >90	nodologies,resu ASSOCIATEE No prot Presence o	FINDINGS einuria f Protein ,	hal ratio wher	n dehydra



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









	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F	iology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Miss. PRATIMA		
AGE/ GENDER	: 24 YRS/FEMALE	PATIENT ID	: 1763762
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200004
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 08:45 AM
BARCODE NO.	: 01525805	COLLECTION DATE	: 20/Feb/2025 08:49AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 12:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	V	alue 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)	٢	am Chopra ID (Pathology) ant Pathologist
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BARCODE NO.	: 01525805		COLLECTION DATE	: 20/Feb/2025 08:49AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Feb/2025 11:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	THY	YROID FUNC	TION TEST: TOTA	L
TRIIODOTHYRONII	NE (T3): SERUM SESCENT MICROPARTICLE IMMUNOAS	0.74 SAY)	ng/ml	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	ERUM IESCENT MICROPARTICLE IMMUNOAS	6.08 SAY)	μgm/d	4.87 - 12.60
	TING HORMONE (TSH): SERU		µIU/m	nL 0.35 - 5.50
BY CMIA (CHEMILOMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :		SAT)		
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TSH	I stimulates the pr	oduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low N	Normal	Normal or Low Normal	High

LIN	/III A	лю	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.

TRIIODOTHYRONINE (T3)		THYROXINE (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	

Increased

Normal or High Normal





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Test Name		Value	Uni	t	Biological Reference interva	
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 L	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. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. PRATIMA			
AGE/ GENDER	: 24 YRS/FEMALE	РАТ	TENT ID	: 1763762
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 20/Feb/2025 09:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	THOLOGY	
	URINE RO		SCOPIC EXAMINA	ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEVI		10	ml	
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	AMBER YELLO	ow	PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY NATION			
REACTION		ACIDIC		
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	Nogotivo		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		<=5.0		5.0 - 7.5
by DIP STICK/REFLECT BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
NITRITE by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECT KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLECT MICROSCOPIC EXA	TANCE SPECTROPHOTOMETRY	NEGATIVE (-v	re)	NEGATIVE (-ve)
RED BLOOD CELLS		NEGATIVE (-v	re) /HPF	0 - 3





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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	CENTRIEUGED URINARY SEDIMENT	1-2	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-1	/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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