

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mrs. GURSIMRAN			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1602631
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409050024
REFERRED BY	:		REGISTRATION DATE	: 05/Sep/2024 10:42 AM
BARCODE NO.	:01516327		COLLECTION DATE	: 05/Sep/2024 10:49AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM	BALA CANTT	REPORTING DATE	: 05/Sep/2024 11:10AM
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA WI	ELLNESS PANEL: D	
			DOD COUNT (CBC)	
<u>RED BLOOD CELL</u> S (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11.8 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB	C) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.47	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM		37.7	%	37.0 - 50.0
MEAN CORPUSCULA		84.4	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	26.3 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	31.3 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	42.2	fL	35.0 - 56.0
MENTZERS INDEX		18.88	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	24.45	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ′ by sf cube & microscopy	8120	/cmm	4000 - 11000
NUCLEATED RED BLC by AUTOMATED 6 PAF	OOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
NEUTROPHILS	BY SF CUBE & MICROSCOPY	62	%	50 - 70





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Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	30	%	20 - 40
EOSINOPHILS	BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES	BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS		0	%	0 - 1
by FLOW CYTOMETRY I ABSOLUTE LEUKOCYT	BY SF CUBE & MICROSCOPY ES (WBC) COUNT			
ABSOLUTE NEUTROPH		5034	/cmm	2000 - 7500
ABSOLUTE LYMPHOCY		2436	/cmm	800 - 4900
ABSOLUTE EOSINOPH		162	/cmm	40 - 440
ABSOLUTE MONOCYT		487	/cmm	80 - 880
by FLOW CYTOMETRY ABSOLUTE BASOPHIL	by sf cube & microscopy COUNT	0	/cmm	0 - 110
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			
PLATELETS AND OTHE PLATELET COUNT (PLT	ER PLATELET PREDICTIVE MARK	190000	/cmm	150000 - 450000
by HYDRO DYNAMIC FO	, CUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT) by HYDRO DYNAMIC FC	CUSING, ELECTRICAL IMPEDENCE	0.2	%	0.10 - 0.36
MEAN PLATELET VOLU	JME (MPV) CUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
PLATELET LARGE CELL		62000	/cmm	30000 - 90000
PLATELET LARGE CELL		32.6	%	11.0 - 45.0
PLATELET DISTRIBUTI by HYDRO DYNAMIC FO		16.3	%	15.0 - 17.0



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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Sep/2024 11:36AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Г	
est Name		Value	Unit	Biological Reference interval
	ERYTI	HROCYTE SED	IMENTATION RATE (ES	R)
	MENTATION RATE (ESR)	15	mm/1st h	ur 0 - 20
polycythaemia), sigr is sickle cells in sickl JOTE: . ESR and C - reactiv 2. Generally, ESR doe 8. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	nificantly high white blood cell c le cell anaemia) also lower the f e protein (C-RP) are both market es not change as rapidly as does by as many other factors as is Es ed, it is typically a result of two ive a higher ESR, and menstruation	ount (leucocytos ESR. cRP, either at th SR, making it a b a types of proteins on and pregnanc	sis), and some protein abno n. estart of inflammation or as e tter marker of inflammatior s, globulins or fibrinogen. y can cause temporary eleva	1.
	Bw -		Guopra	





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Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMIS	TRY/BIOCHEMISTR	Y
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING (F	E): PLASMA E - PEROXIDASE (GOD-POD)	96.94	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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.
 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 PROF		
CHOLESTEROL TOTAL by CHOLESTEROL OX		164.31	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	140.82	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		39.79	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		96.36	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 CHOLESTEI by CALCULATED, SPE		124.52	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 CHOLESTEROL:		28.16	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	469.44	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	4.13	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by calculated, spe		2.42	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.54	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 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			
	LIV		ON TEST (COMPLETE)				
BILIRUBIN TOTAL: S		0.33	mg/dL	INFANT: 0.20 - 8.00			
-	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20			
	CONJUGATED): SERUM	0.09	mg/dL	0.00 - 0.40			
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00			
SGOT/AST: SERUM		18.6	U/L	7.00 - 45.00			
	RIDOXAL PHOSPHATE						
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	29.4	U/L	0.00 - 49.00			
AST/ALT RATIO: SER		0.63	RATIO	0.00 - 46.00			
by CALCULATED, SPE		0.00					
ALKALINE PHOSPHA		68.43	U/L	40.0 - 130.0			
by PARA NITROPHEN PROPANOL	YL PHOSPHATASE BY AMINO METHYL						
	TRANSFERASE (GGT): SERUM	9.87	U/L	0.00 - 55.0			
by SZASZ, SPECTRO	PHTOMETRY						
TOTAL PROTEINS: SE		6.2	gm/dL	6.20 - 8.00			
by BIURET, SPECTRO ALBUMIN: SERUM	PHUIOMEIRY	4.12	gm/dL	3.50 - 5.50			
by BROMOCRESOL G	REEN	4.12	gin/uL	3.30 - 3.30			
GLOBULIN: SERUM		2.08 ^L	gm/dL	2.30 - 3.50			
	ECTROPHOTOMETRY						
A : G RATIO: SERUM by CALCULATED, SPE		1.98	RATIO	1.00 - 2.00			

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:

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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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:

GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	КІ	DNEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		23.17	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)	0.15		
CREATININE: SERUM by enzymatic, spectrophotometery BLOOD UREA NITROGEN (BUN): SERUM		0.68	mg/dL	0.40 - 1.20
		10.83	mg/dL	7.0 - 25.0
-		15.02		10.0.00.0
BLOOD UREA NITRO RATIO: SERUM	OGEN (BUN)/CREATININE	15.93	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE I		34.07	RATIO	
URIC ACID: SERUM	ECTROPHOTOMETRY	4.72	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE			
CALCIUM: SERUM by ARSENAZO III, SPE	CTRORHOTOMETRY	9.3	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		3.54	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY		<u>J</u>	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIN		139.9	mmol/L	135.0 - 150.0
POTASSIUM: SERUN		3.98	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE)				
CHLORIDE: SERUM by ISE (ION SELECTIN	/F ELECTRODE)	104.93	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	120.8		
(eGFR): SERUM				
by CALCULATED				

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.



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DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients	nd starvation. e. creased urea synthesis. (urea rather than creatinine dif monemias (urea is virtually abs of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN upy (accelerates conversion of c eleases muscle creatinine). who develop renal failure.	fuses out of extracell sent in blood). mone) due to tubular INE:	secretion of urea.		
should produce an in 2. Cephalosporin thei	sis (acetoacetate causes false i creased BUN/creatinine ratio). rapy (interferes with creatinine		with certain method	ologies,resulting in norma	al ratio when dehydratio
CKD STAGE	JLAR FILTERATION RATE: DESCRIPTION	GFR (ml /	min/1.73m2)	ASSOCIATED FINDINGS	1
G1	Normal kidney fun		>90	No proteinuria	1
G2	Kidney damage w	vith	>90	Presence of Protein,	1
	normal or high G			Ibumin or cast in urine	4
G3a	Mild decrease in		0 -89		4
G3b	Moderate decrease		0-59		4
G4	Severe decrease in		5-29		-

G5

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Kidney failure

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

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-			<u></u>		
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

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

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







	MD (Pat	n ay Chopra hology & Microbiology) in & Consultant Patholog	M	m Chopra D (Pathology) nt Pathologist
JAME	: Mrs. GURSIMRAN			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1602631
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409050024
REFERRED BY			REGISTRATION DATE	: 05/Sep/2024 10:42 AM
BARCODE NO.	: 01516327		COLLECTION DATE	: 05/Sep/2024 10:49AM
CLIENT CODE.	: KOS DIAGNOSTIC LA	B	REPORTING DATE	: 05/Sep/2024 12:08PM
CLIENT ADDRESS		I ROAD, AMBALA CANT		
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
		VITAMIN D/25 I	HYDROXY VITAMIN D3	8
	ROXY VITAMIN D3): SE Nescence immunoassay		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
<u>Nterpretation:</u> Defi	CIENT:	< 20		ng/mL
INSUF	FICIENT:	21 - 29		ng/mL
	ED RANGE:	<u> </u>		ng/mL ng/mL
issue and tightly boo 2. Vitamin D plays a p bosphate reabsorpt 2. Severe deficiency r DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 3. Secondary to advar 5. Osteoporosis and S 5. Enzyme Inducing do NCREASED: 1. Hypervitaminosis I evere hypercalcemia AUTION: Replaceme hypervitaminosis D	und by a transport prote orimary role in the main tion, skeletal calcium de may lead to failure to mi coosure. Malabsorption (celiac of Vitamin D 25- hydroxyla foced Liver disease fecondary Hyperparathro rugs: anti-epileptic drugs D is Rare, and is seen on a and hyperphophatemia ent therapy in deficient i individuals as compare to	ein while in circulation. tenance of calcium hom position, calcium mobili, neralize newly formed o lisease) se activity bidism (Mild to Moderat s like phenytoin, phenot y after prolonged expos a. ndividuals must be moni	eostatis. It promotes calciu zation, mainly regulated by osteoid in bone, resulting in te deficiency) parbital and carbamazepine sure to extremely high dose itored by periodic assessme	nsport form of Vitamin D, being stored in adip um absorption, renal calcium absorption and y parathyroid harmone (PTH). n rickets in children and osteomalacia in adult e, that increases Vitamin D metabolism. es of Vitamin D. When it occurs, it can result in ent of Vitamin D levels in order to prevent ficiency due to excess of melanin pigment which
		*** End Of F	Report ***	
	an	_	Chopra	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.