

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
JAME	: Mr. YASH			
GE/ GENDER	: 21 YRS/MALE		PATIENT ID	: 1561116
COLLECTED BY	:		REG. NO./LAB NO.	: 042407260001
REFERRED BY	:		REGISTRATION DATE	: 26/Jul/2024 08:55 AM
BARCODE NO.	: A0465059		COLLECTION DATE	: 26/Jul/2024 03:17PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AMI		REPORTING DATE	: 26/Jul/2024 03:24PM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WEL	LNESS PANEL: 15.0	
	COM	MPLETE BLC	OOD COUNT (CBC)	
RED BLOOD CELLS (R	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		13.7	gm/dL	12.0 - 17.0
<i>by CALORIMETRIC</i> RED BLOOD CELL (RE	BC) COUNT	4.64	Millions/ci	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN by calculated by a	/IE (PCV) .UTOMATED HEMATOLOGY ANALYZER	43.2	%	40.0 - 54.0
VEAN CORPUSCULA		93.1	fL	80.0 - 100.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.4	pg	27.0 - 34.0
VEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	13.9	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	48.4	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
VENTZERS INDEX		20.06	RATIO	BETA THALASSEMIA TRAIT: < 13. IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	27.77	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				
VHITE BLOOD CELLS	S (WBCS)			IRON DEFICIENCY ANEMIA: > 65.
OTAL LEUCOCYTE C		9350	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
	DOD CELLS (nRBCS) % .utomated hematology analyzer &	NIL	%	< 10 %

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

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





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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. YASH **PATIENT ID** : 21 YRS/MALE REG. NO./LAB NO. : **REGISTRATION DATE** : : A0465059 **COLLECTION DATE** : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	71 ^H	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	20	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 ^L	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9	%	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	6639	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1870	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 ^L	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	842	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKER	0 S.	/cmm	0 - 110
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	260000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.33	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	117000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	44.9	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.2	%	15.0 - 17.0



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Test Name	Value	Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC SHAHI	BAD Re	PORTING DATE	: 26/Jul/2024 04:36PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHI : 6349/1, NICHOLSON RO		PORTING DATE	: 26/Jul/2024 04:36PM
			Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT	Unit Y/BIOCHEMISTR	Biological Reference interval

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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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. YASH AGE/ GENDER : 21 YRS/MALE **PATIENT ID** :1561116 **COLLECTED BY** :042407260001 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 26/Jul/2024 08:55 AM : A0465058 **BARCODE NO. COLLECTION DATE** : 26/Jul/2024 03:18PM CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 26/Jul/2024 04:44PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM 181.15 mg/dL OPTIMAL: < 200.0 by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 TRIGLYCERIDES: SERUM 98.08 mg/dL OPTIMAL: < 150.0 by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 HDL CHOLESTEROL (DIRECT): SERUM 58.36 mg/dL LOW HDL: < 30.0 by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -60.0 HIGH HDL: > OR = 60.0 LDL CHOLESTEROL: SERUM 103.17 mg/dL OPTIMAL: < 100.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 NON HDL CHOLESTEROL: SERUM 122.79 mg/dL OPTIMAL: < 130.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 VLDL CHOLESTEROL: SERUM 19.62 mg/dL 0.00 - 45.00 by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM 460.38 mg/dL 350.00 - 700.00 by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM 3.1 RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LDL/HDL RATIO: SERUM 1.77 RATIO LOW RISK: 0.50 - 3.0 by CALCULATED, SPECTROPHOTOMETRY MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - I33 001, Haryana

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	1.68 ^L	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION:

1. Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the

age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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

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





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Test Name	Value	Unit	Piological Deference interval
	value	Unit	Biological Reference interval
	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.55	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.22	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.25	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	36.34	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.61	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	52.87	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	54.95	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.1	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.15	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.95	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.41	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:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C.	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Inc	creased)

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

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

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

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ESTIMATED GLOMERULAR FILTERATION RATE (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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Test Name		Value	Unit	Biological Reference interval
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro 	ass (subnormal creatinine produc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE I (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. nd starvation.	LEVELS:	ine) (e.g. obstructive uropa	athy).
 Severe liver disease Other causes of dee 				

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

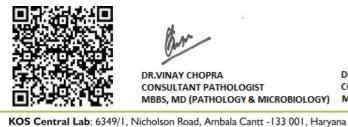
3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein ,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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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 FR category reported as per KDIGO guideline 2012

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

End Of Report ***





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