



	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)	
NAME	: Mr. VISHAL				
AGE/ GENDER	: 43 YRS/MALE		PATIENT ID	: 1820027	
COLLECTED BY	:		REG. NO./LAB NO.	:012504060041	
REFERRED BY	: P.G.I. (CHANDIGARH)		REGISTRATION DATE	: 06/Apr/2025 12:18 PM	[
BARCODE NO.	: 01528467		COLLECTION DATE	:06/Apr/2025 12:20PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:06/Apr/2025 12:42PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value	Unit	Biological Re	ference interval
	SWAST	HYA WEI	LLNESS PANEL: G	T	
			OOD COUNT (CBC)		
RED BLOOD CELI	S (RBCS) COUNT AND INDIC		· · ·		
HAEMOGLOBIN (HI	3)	12.4	gm/dL	12.0 - 17.0	
RED BLOOD CELL	(RBC) COUNT DCUSING, ELECTRICAL IMPEDENCE	5	Millions/	cmm 3.50 - 5.00	
PACKED CELL VOL	UME (PCV)	39.9 ^L	%	40.0 - 54.0	
MEAN CORPUSCUL	JTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	79.7 ^L	fL	80.0 - 100.0	
MEAN CORPUSCUL	JTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	24.8 ^L	pg	27.0 - 34.0	
MEAN CORPUSCUI	JTOMATED HEMATOLOGY ANALYZER LAR HEMOGLOBIN CONC. (MCI	HC) 31.1^L	g/dL	32.0 - 36.0	
-	JTOMATED HEMATOLOGY ANALYZER BUTION WIDTH (RDW-CV)	14	%	11.00 - 16.00	
	JTOMATED HEMATOLOGY ANALYZER BUTION WIDTH (RDW-SD)	41.9	fL	35.0 - 56.0	
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER	15.04	DATE		
MENTZERS INDEX by CALCULATED		15.94	RATIO	BETA THAL 13.0	ASSEMIA TRAIT: <
					IENCY ANEMIA:
				>13.0	
GREEN & KING IN by CALCULATED	DEX	71.72	RATIO	BETA THAL <= 74.1	ASSEMIA TRAIT:
					IENCY ANEMIA:
				>= 74.1	
WHITE BLOOD CI	ELLS (WBCS)				
	E COUNT (TLC) by sf cube & microscopy	7400	/cmm	4000 - 11000	
	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00	
	T HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) %	NIL			
			%	< 10 %	





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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra

MD (Pathology & Microbiology)

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. VISHAL **AGE/ GENDER** : 43 YRS/MALE **PATIENT ID** :1820027 **COLLECTED BY** :012504060041 REG. NO./LAB NO. **REFERRED BY** : P.G.I. (CHANDIGARH) **REGISTRATION DATE** :06/Apr/2025 12:18 PM **BARCODE NO.** :01528467 **COLLECTION DATE** :06/Apr/2025 12:20PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :06/Apr/2025 12:42PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER DIFFERENTIAL LEUCOCYTE COUNT (DLC) **NEUTROPHILS** 61 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 30 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 2000 - 7500 4514 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2220 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 222 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 444 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 0 - 110/cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 223000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.25 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 11 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 79000 /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 35.2 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.1 % 15.0 - 17.0



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







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	

 Test Name
 Value
 Unit
 Biological Reference interval

 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

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

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				1	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 06/Apr/2025 01:34PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference inter	rval
WHOLE BLOOD	AEMOGLOBIN (HbA1c):	SYLATED HAEM 5.6	%	4.0 - 6.4	
	AGE PLASMA GLUCOSE	114.02	mg/dL	60.00 - 140.00	
	RMANCE LIQUID CHROMATOGRAPHY)				
INTERPRETATION:					
		DIABETES ASSOCIATION			
	REFERENCE GROUP	GLYCOS	VLATED HEMOGLOGIB <5.7	(HBAIC) in %	
	abetic Adults >= 18 years t Risk (Prediabetes)	- /	5.7 - 6.4		
	iagnosing Diabetes		>= 6.5		
D			Age > 19 Years		
		Goals of Th		< 7.0	
Therapeut	ic goals for glycemic control	Actions Sug		>8.0	
			Age < 19 Years		
		Goal of the		<7.5	

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropiate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



0 9 0 0 1 : 2 0 0 8 CERT	IFIED LAB			EXCELLENCE IN HEALTHCARE	E & DIAGNOSTICS	
		Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)	
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BARCODE NO.	:01528467			COLLECTION DATE	: 06/Apr/2025 12:20PM	
CLIENT CODE.	: KOS DIAGN	IOSTIC LAB		REPORTING DATE	: 06/Apr/2025 12:59PM	
CLIENT ADDRESS		CHOLSON ROAD, AM	BALA CANTT		I I I I I I I I I I I I I I I I I I I	
Test Name			Value	Unit	Biological Reference interv	al
		ERYTHROC	YTE SEDI	MENTATION RATE	(ESR)	
INTERPRETATION: 1. ESR is a non-specifi immune 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), signas sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha	GATION BY CAPI fic test because does not tell the ected by other of be used to more ematosus W ESR en with condition hificantly high view le cell anaemia the protein (C-RP es not change a l by as many othe ed, it is typical two a higher ESF tran, methyldo	an elevated result of he health practitioner conditions besides inf nitor disease activity ons that inhibit the no white blood cell coun also lower the ESR. are both markers of her factors as is ESR, r ly a result of two type R, and menstruation a pa, oral contraceptive	exactly wher lammation. Fe and response prmal sedimer t (leucocytosi ; inflammatior , either at the naking it a be so of proteins, nd pregnancy	te the inflammation is in the pr this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s s) , and some protein abno n. start of inflammation or as tter marker of inflammation globulins or fibrinogen. can cause temporary eleva	tion associated with infection, cancer and a e body or what is causing it. pically used in conjunction with other test above diseases as well as some others, such such as a high red blood cell count prmalities. Some changes in red cell shape of s it resolves. n.	such n as (such

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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		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT CODE.	11100 0111011001110 0110			
	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
CLIENT ADDRESS		, AMBALA CANTT Value	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	Value	Y/BIOCHEMIS	

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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	MD (Pathology & Microbiology) Chairman & Consultant Patholog		n Chopra (Pathology) : Pathologist
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Test Name	Value	Unit	Biological Reference interval
	I IPID PR	OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	111.34	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (I	60.71 ENZYMATIC)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): S by SELECTIVE INHIBITION	SERUM 51.38	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMET	47.82	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 CHOLESTEROL: SERU by CALCULATED, SPECTROPHOTOMET		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: SERUM by CALCULATED, SPECTROPHOTOMET	12.14	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMET	283.39 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SEE by CALCULATED, SPECTROPHOTOMET	RUM 2.17	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. VISHAL			
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COLLECTED BY	:	F	EG. NO./LAB NO.	: 012504060041
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		0.93	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	1.18 ^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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. VISHAL **AGE/ GENDER** : 43 YRS/MALE **PATIENT ID** :1820027 **COLLECTED BY** :012504060041 REG. NO./LAB NO. **REFERRED BY** : P.G.I. (CHANDIGARH) **REGISTRATION DATE** :06/Apr/2025 12:18 PM **BARCODE NO.** :01528467 **COLLECTION DATE** :06/Apr/2025 12:20PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :06/Apr/2025 01:20PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Test Name **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.58 INFANT: 0.20 - 8.00 mg/dL by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.29 mg/dL 0.00 - 0.40by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.29 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 32.44 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM U/L 0.00 - 49.00 50.69^H by IFCC, WITHOUT PYRIDOXAL PHOSPHATE RATIO AST/ALT RATIO: SERUM 0.64 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 68.6 U/L 40.0 - 150.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 21.2 U/L 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY

TOTAL PROTEINS: SERUM 6.43 6.20 - 8.00 gm/dL by BIURET, SPECTROPHOTOMETRY 3.85 ALBUMIN: SERUM gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN 2.58 GLOBULIN: SERUM gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY A: G RATIO: SERUM 1.49 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





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

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INTERPRETATION





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REFERRED BY	: P.G.I. (CHANDIGARH)	REGISTRAT	TION DATE	:06/Apr/20251	2:18 PM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biolog	ical Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	>1	.3 (Slightly Inc	reased)	
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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AGE/ GENDER	: 43 YRS/MALE	Р	ATIENT ID	: 1820027
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012504060041
REFERRED BY	: P.G.I. (CHANDIGARH)	R	EGISTRATION DATE	: 06/Apr/2025 12:18 PM
BARCODE NO.	: 01528467		OLLECTION DATE	: 06/Apr/2025 12:20PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 06/Apr/2025 01:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interv
	KIDNE	Y FUNCTION	TEST (COMPLETI	E)
UREA: SERUM		14.65	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)			
CREATININE: SER by ENZYMATIC, SPEC	-	0.97	mg/dL	0.40 - 1.40
-	ROGEN (BUN): SERUM	6.85 ^L	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY	0.85	8	
	ROGEN (BUN)/CREATININE	7.06 ^L	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		15.1	RATIO	
by CALCULATED, SPE				
URIC ACID: SERUN by URICASE - OXIDAS		6.61	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.38	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			8	
PHOSPHOROUS: S		4.01	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		139.1	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	139.1	IIIII0I/L	155.0 - 150.0
POTASSIUM: SERU	JM	4.25	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		104.22	- 1/T	00.0 110.0
CHLORIDE: SERUN by ISE (ION SELECTIV		104.32	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RAT	<u>TE</u>		
ESTIMATED GLON	MERULAR FILTERATION RATE	2 99.3		
(eGFR): SERUM				
by CALCULATED				
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.



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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt - 133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana

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

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. VISHAL			
AGE/ GENDER	: 43 YRS/MALE	PATIE	NT ID	: 1820027
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine proc tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATINII a (BUN rises disproportionately	duction) NE LEVELS: more than creatinine) (e.g		osis, Cushing's syndrome, high protein diet, thy).
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (~ 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 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	xia, high fever). (e.g. ureter colostomy) lass (subnormal creatinine prod tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine).	duction) VE LEVELS: more than creatinine) (e.g e. fuses out of extracellular f sent in blood). mone) due to tubular secre IINE:	obstructive uropa	
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 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 INAPPROPIATE RATIO	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure.	duction) VE LEVELS: more than creatinine) (e.g. e. fuses out of extracellular f sent in blood). mone) due to tubular secret IINE: creatine to creatinine).	obstructive uropa	thy).
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 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 INAPPROPIATE RATIO 1. Diabetic ketoacido	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATINII a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false i	duction) VE LEVELS: more than creatinine) (e.g. fuses out of extracellular f sent in blood). mone) due to tubular secret IINE: creatine to creatinine).	obstructive uropa	
ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 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 INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATINIF a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of c eleases muscle creatinine). who develop renal failure.	duction) VE LEVELS: more than creatinine) (e.g. fuses out of extracellular f sent in blood). mone) due to tubular secre IINE: creatine to creatinine). increase in creatinine with	obstructive uropa	thy).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , 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	





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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

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

 www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. VISHAL		
AGE/ GENDER	: 43 YRS/MALE	PATIENT ID	: 1820027
COLLECTED BY	:	REG. NO./LAB NO.	: 012504060041
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Test Name	Value	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)







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
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Test Name			Unit	Biological Reference interval
			FION TEST: TOTAL	
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	1.108	ng/mL	0.35 - 1.93
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	8.41	µgm/dL	4.87 - 12.60
	IESCENT MICROPARTICLE IMMUNOASSAY)	0.747	µIU/mL	0.35 - 5.50
TSH levels are subject to day has influence on the		lates the pro	duction and secretion of the me	n. The variation is of the order of 50%.Hence time of the tabolically active hormones, thyroxine (T4)and r underproduction (hypothyroidism) or

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

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.

TRIIODOTH	(RONINE (T3)	THYROX	THYROXINE (T4)		ATING 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





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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com









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Test Name			Value	Unit	t	Biological Reference interva
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 - 12 Months	0.70 - 7.00	
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	
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PREC	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





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







KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 06/Apr/2025 02:12PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM				
Test Name		Value	Unit	Biological Reference interval	
		OPATHOLOG			
	HELICOBACTER	PYLORI ANTIC	GEN DETECTIO	N - STOOL	
	NTIGEN DETECTION - STOOL ESCENCE IMMUNOASSAY)	0.98 ^H	INDEX	NEGATIVE: <0.90 EQUIVOCAL: 0.90-1.10 POSITIVE: >=1.10	
an independent risk f infected with H. pylor NOTE: for diagnosis, therap 2. It is a chemilumine for diagnosis, therap 2. It is a qualitative to 3. A positive result (a 4. A negative result d 5. Assay results shou patient management 6. Antimicrobials,pro false negative result. 7. Fecal specimens p	actor for gastric cancer and primary i may not show any symptoms of th escent Immunoassay (CLIA) for detect eutic monitoring and to assess eradi est. ntigen detected) is indicative of H p oes not exclude the possibility of He Id be utilized in conjuction with oth	malignant lymphom e disease. ction of Helicobacter ication of H. pylori in ylori presence in stor elicobacter pylori infe her clinical and laora reparations are know ite formalin,sodium a	a of the stomach. Ho pylori antigen in fac fection post treatme of sample. tory data to assist t n to supress H.pylor	ecal samples and can be used ent. he clinician in making individual ri and if ingested may give a	
	AL	Auger			
	am	Ŧ			



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Patho	y Chopra Iogy & Microbiology) & Consultant Pathologis		(Pathology)
NAME	: Mr. VISHAL			
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BARCODE NO.	:01528467		COLLECTION DATE	: 06/Apr/2025 12:20PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Apr/2025 07:03AM
LIENT ADDRESS	: 6349/1, NICHOLSON R	COAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ANTI TISS	UE TRANSGLUT	AMINASE (tTG) ANT	IBODY IgA
NTI TISSUE TRA	NSGLUTAMINASE	8.54	IU/mL	NEGATIVE: < 20.0
NTIBODY IgA	NKED IMMUNOASSAY)			POSITIVE: > 20.0
pithelial cells by ki .Deposits of anti-tT .Celiac disease (glu yheat, rye, or barle nucosa of the small LINICAL MANIFESTA .Abdominal pain .Malabsorption .Diarrhea and Cons LINICAL MANIFESTA .Failure to grow (de .Iron deficiency and .Recurrent fetal los .Osteoporosis and o .Recurrent aphthou	Iler cells. G in the intestinal epitheliu Iten-sensitive enteropathy by proteins that occurs in intestine, which leads to vi TIONS RELATED TO GASTRO tipation. TION OF CELIAC DISEASE NO layed puberty and short statemia s	Im predict coeliac disea (, celiac sprue) results genetically susceptible llous atrophy. DINTESTINAL TRACT: DT RESTRICTED TO GIT: hture)	ase. from an immune-mediate	nd target the destruction of intestinal villou d inflammatory process following ingestion o ation in celiac disease occurs primarily in the
creased risk for dev	elopment of non-Hodgkin	ymphoma.		g ataxia and peripheral neuropathy, and are a diabetes mellitus, Down syndrome, and Ig
eficiency.				, - , - , - , - , - , - , - , - , - , -
ndividuals with mod he diagnosis. Llf patients strictly a herapy. CAUTION:	derately to strongly positiv	e results, a diagnosis o t, the unit value of IgA-	f celiac disease is likely and anti-tTG should begin to de	nd possibly for dermatitis herpetiformis. For d the patient should undergo biopsy to confirm ccrease within 6 to 12 months of onset of dietar puld be used to identify patients who have a

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

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Test Name		Value Unit	Biological Reference interval

3.For individuals who test negative, IgA deficiency should be considered. If total IgA is normal and tissue transglutaminase (tTG)-IgA is negative, there is a low probability of the patient having celiac disease and a biopsy may not be necessary.

4.If serology is negative or there is substantial clinical doubt remaining, then further investigation should be performed with endoscopy and bowel biopsy. This is especially important in patients with frank malabsorptive symptoms since many syndromes can mimic celiac disease. For the patient with frank malabsorptive symptoms, bowel biopsy should be performed regardless of serologic test results.

5. The antibody pattern in dermatitis herpetiformis may be more variable than in celiac disease; therefore, both endomysial and tTG antibody determinations are recommended to maximize the sensitivity of the serologic tests.

*** End Of Report ***



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

MBBS, MD (PATHOLOGY)

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