

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
JAME	: Mr. SHALLY KHANNA				
GE/ GENDER	: 56 YRS/MALE		PATIENT ID	: 1741972	
COLLECTED BY	:		REG. NO./LAB NO.	: 012502010010	
REFERRED BY	:		REGISTRATION DATE	$:01/Feb/2025\ 08:54\ AM$	
BARCODE NO.	: 01524743		COLLECTION DATE	:01/Feb/2025 11:00AM	
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:01/Feb/202509:13AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Fest Name		Value	Unit	Biological Reference inter	val
	SWAST	HYA WEI	LINESS PANEL: 1.	5	
	COMP	LETE BLO	DOD COUNT (CBC)		
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H)	B)	13.4	gm/dL	12.0 - 17.0	
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	4.45	Millions	/cmm 3.50 - 5.00	
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE				
PACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	40.3	%	40.0 - 54.0	
	AR VOLUME (MCV)	90.6	fL	80.0 - 100.0	
	utomated hematology analyzer AR HAEMOGLOBIN (MCH)	30.1	pg	27.0 - 34.0	
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	33.2	g/dL	32.0 - 36.0	
	UTION WIDTH (RDW-CV)	13.1	%	11.00 - 16.00	
•	utomated hematology analyzer UTION WIDTH (RDW-SD)	44.5	fL	35.0 - 56.0	
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
MENTZERS INDEX		20.36	RATIO	BETA THALASSEMIA TRAI 13.0	:T: <
				IRON DEFICIENCY ANEMI	A:
		00.00	DATIO	>13.0	
GREEN & KING IND by calculated	DEX	26.66	RATIO	BETA THALASSEMIA TRA 65.0	1:<-
				IRON DEFICIENCY ANEMI	A: >
NUITE BLOOD CEI				65.0	
NHITE BLOOD CEI FOTAL LEUCOCYTE		5820	/cmm	4000 - 11000	
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	5020	/ Chill	4000 - 11000	
NUCLEATED RED B	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00	
by ALITOMATED & DAD		NIL	%	< 10 %	
by automated 6 par NUCLEATED RED B	LOOD CELLS (NKBCS) %	INIL	70	< 10 /0	





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, HaryanaKOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



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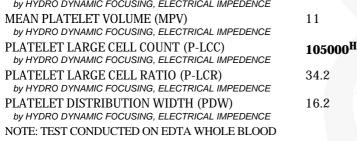




Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SHALLY KHANNA AGE/ GENDER : 56 YRS/MALE **PATIENT ID** :1741972 **COLLECTED BY** :012502010010 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :01/Feb/2025 08:54 AM **BARCODE NO.** :01524743 **COLLECTION DATE** :01/Feb/2025 11:00AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :01/Feb/2025 09:13AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 57 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 27 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 11 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3317 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1571 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 291 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 640 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 306000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.34 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE fL 11 6.50 - 12.0

Dr. Vinay Chopra





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

/cmm

%

%



30000 - 90000

11.0 - 45.0

15.0 - 17.0





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
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Test Name	Value	Unit	Biological Reference interval



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







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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 01/Feb/2025 03:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOO	GLOBIN (HBA1C)	
GLYCOSYLATED HAE		COSYLATED HAEMOO 5.4	GLOBIN (HBA1C) %	4.0 - 6.4
WHOLE BLOOD	MOGLOBIN (HbA1c):			4.0 - 6.4
WHOLE BLOOD	MOGLOBIN (HbA1c):		%	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c):	5.4		
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	5.4 108.28	%	
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION:	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	5.4 108.28 ETES ASSOCIATION (ADA):	% mg/dL	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	5.4 108.28 ETES ASSOCIATION (ADA):	% mg/dL IEMOGLOGIB (HBAIC) ir	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years	5.4 108.28 ETES ASSOCIATION (ADA): GLYCOSYLATED F	% mg/dL IEMOGLOGIB (HBAIC) ir <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	5.4 108.28 ETES ASSOCIATION (ADA): GLYCOSYLATED F	% mg/dL IEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years	5.4 108.28 ETES ASSOCIATION (ADA): GLYCOSYLATED F	% mg/dL IEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	5.4 108.28 ETES ASSOCIATION (ADA): GLYCOSYLATED F	% mg/dL IEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 e > 19 Years	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	5.4 108.28 ETES ASSOCIATION (ADA): GLYCOSYLATED F	% mg/dL IEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	5.4 108.28 ETES ASSOCIATION (ADA): GLYCOSYLATED F GLYCOSYLATED F Ag Goals of Therapy: Actions Suggested:	% mg/dL IEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 e > 19 Years < 7.0	60.00 - 140.00

COMMENTS:

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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 appropriate. 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)

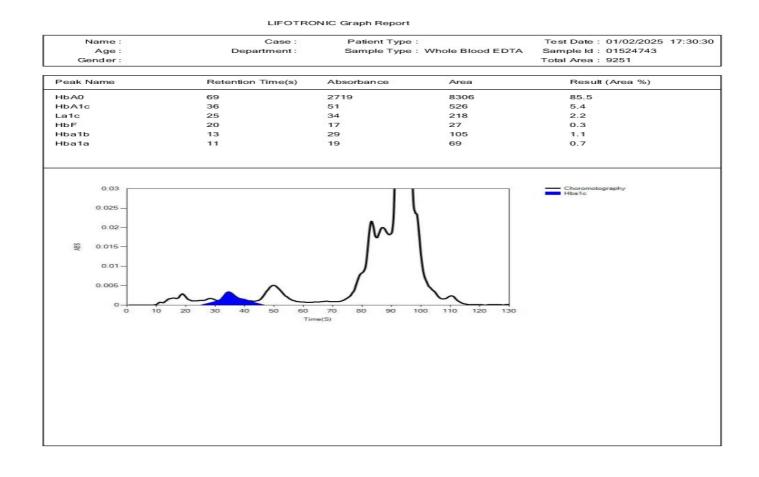
DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







Test Name		Value Unit	Biological Reference interval
	. 0040/ 1, MICHOLDON ROAD, AND		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	SALA CANTT	
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	Chairman & Consulta		
	Dr. Vinay Chopr MD (Pathology & Mic		m Chopra D (Pathology)







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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Yugam Chopra MD (Pathology) onsultant Pathologist	
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REFERRED BY	:	REGISTRATION D	DATE : 01/Feb/2025 08:54 AM	
BARCODE NO.	: 01524743	COLLECTION DAT	TE : 01/Feb/2025 11:00AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	FE : 01/Feb/2025 09:52AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value Un	nit Biological Reference inter	val
	FDVTHDA	CYTE SEDIMENTATION RA	DATE (ESD)	
7DVTHDOCVTE SEI	DIMENTATION RATE (ESR)		nm/1st hr 0-20	
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also conDITION WITH LO A low ESR can be see polycythaemia), sigr as sickle cells in sickl 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 5. Drugs such as dext	does not tell the health practitione cted by other conditions besides int be used to monitor disease activity ematosus W ESR n with conditions that inhibit the mi ficantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers o es not change as rapidly as does CRF by as many other factors as is ESR , ed, it is typically a result of two typ ve a higher ESR, and menstruation a	r exactly where the inflammation flammation. For this reason, the E and response to therapy in both o ormal sedimentation of red blood ht (leucocytosis), and some protei finflammation. P, either at the start of inflammatii making it a better marker of inflam es of proteins, globulins or fibrino and pregnancy can cause temporal	mmation. ogen.	: such h as (suc





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



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	t		& Microbiology) nsultant Pathologis		(Pathology)
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CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 01/Feb/2025 11:01AM
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		CLINI	CAL CHEMIS	TRY/BIOCHEMIST	'RY
			GLUCOSE	FASTING (F)	
GLUCOSE FASTIN	G (F): PLASMA Se - peroxidase (C	GOD-POD)	117.44 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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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MBBS, MD (PATHOLOGY)

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:01/Feb/2025 11:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	F · BASIC	
CUOLESTEDOL TO		170.88		OPTIMAL: < 200.0
CHOLESTEROL TO by CHOLESTEROL OX		170.88	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S. by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	130.22	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	46.52	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		98.32	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLEST		124.36	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.4
				BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(CTROPHOTOMETRY	26.04	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		471.98	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	3.67	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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LDL/HDL RATIO: S by CALCULATED, SPE		2.11	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE INTERPRETATION:	IDL RATIO: SERUM ECTROPHOTOMETRY	2.8 ^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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interva
			TEST (COMPLETE)	
BILIRUBIN TOTAL: S by DIAZOTIZATION, SPE		0.61	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT	Г (UNCONJUGATED): SERUM trophotometry	0.46	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRI	DOXAL PHOSPHATE	20.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRI		26.7	U/L	0.00 - 49.00
AST/ALT RATIO: SEF by CALCULATED, SPEC	TROPHOTOMETRY	0.76	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by PARA NITROPHENYL PROPANOL	ATASE: SERUM PHOSPHATASE BY AMINO METHYL	78.77	U/L	40.0 - 130.0
GAMMA GLUTAMYL by szasz, spectroph	TRANSFERASE (GGT): SERUM TOMETRY	55.56 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SI by BIURET, SPECTROPH		7.08	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GRE	EEN	4.79	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPEC	TROPHOTOMETRY	2.29 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPEC	TROPHOTOMETRY	2.09 ^H	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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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

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







	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F		(Pathology)
NAME	: Mr. SHALLY KHANNA		
AGE/ GENDER	: 56 YRS/MALE	PATIENT ID	: 1741972
COLLECTED BY	:	REG. NO./LAB NO.	: 012502010010
REFERRED BY	:	REGISTRATION DATE	:01/Feb/2025 08:54 AM
BARCODE NO.	:01524743	COLLECTION DATE	:01/Feb/2025 11:00AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 01/Feb/2025 11:01AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	

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 SIG	NIFICANCE:

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



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:01/Feb/2025 12:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interv
	KIDNI	EY FUNCTI	ON TEST (COMPLETE)
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	32.95	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	1.13	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	15.4	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	13.63	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	29.16	RATIO	
URIC ACID: SERUM	1	8.47 ^H	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		9.37	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		3.18	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	144	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.6	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	1	108	mmol/L	90.0 - 110.0
	ERULAR FILTERATION RATE	76.3		

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.

3. GI haemorrhage.



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

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	MD (Vinay Chopra (Pathology & Microbiology) rman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
NAME	: Mr. SHALLY KHA	NNA					
AGE/ GENDER	: 56 YRS/MALE		PATI	ENT ID	: 1741972		
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CLIENT CODE.	: KOS DIAGNOSTIC	IAR		RTING DATE	: 01/Feb/2025		
				NIING DAIL	. 01/ Feb/ 2023	12.1711	
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBAL	A CANT I				
Fest Name		v	alue	Unit	Biolog	gical Reference int	erval
 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 	tetracycline, glucoco 0:1) WITH ELEVATED (BUN rises dispropo	inine production) rticoids) C REATININE LEVELS rtionately more tha		g. obstructive urop	pathy).		
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 an 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 INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI OKD STAGE	ass (subnormal creat tetracycline, glucoco 0:1) WITH ELEVATED (BUN rises dispropo superimposed on rer 0:1) WITH DECREASE osis. Id starvation. 2: creased urea synthes urea rather than creat monemias (urea is vi f inappropiate antidi 0:1) WITH INCREASEI py (accelerates conve eleases muscle creat who develop renal fa creased BUN/creatin apy (interferes with o ULAR FILTERATION RA	inine production) rticoids) CREATININE LEVELS tionately more that al disease. D BUN : D BUN : is. attinine diffuses out ctually absent in bluuretic harmone) du D CREATININE: ersion of creatine to nine). ilure. ses false increase i ne ratio). creatinine measure E: CRIPTION	n creatinine) (e. of extracellular ood). e to tubular sec o creatinine). n creatinine wit ment). GFR (mL/mir	fluid). retion of urea. n certain methodo	logies,resulting in no	ormal ratio when def	nydrati
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (Repeated dialysis (NIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin there STIMATED GLOMERI CKD STAGE G1	ass (subnormal creat tetracycline, glucoco 0:1) WITH ELEVATED (BUN rises dispropo superimposed on rer 0:1) WITH DECREASE osis. Id starvation. 2: creased urea synthes urea rather than creat monemias (urea is vi f inappropiate antidi 0:1) WITH INCREASEI py (accelerates conve eleases muscle creat who develop renal fa creased BUN/creatin apy (interferes with o ULAR FILTERATION RA DES	inine production) rticoids) CREATININE LEVELS tionately more that al disease. D BUN : is. attinine diffuses out trually absent in bluuretic harmone) du D CREATININE: ersion of creatine to nine). ilure. ses false increase i ne ratio). treatinine measure E: CRIPTION	n creatinine) (e. of extracellular ood). e to tubular sec o creatinine). n creatinine wit ment). GFR (mL/mir >90	fluid). retion of urea. n certain methodo	logies,resulting in no SSOCIATED FINDING No proteinuria	S	nydrati
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B. Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 I. Postrenal azotemia DECREASED RATIO (< I. Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Severe liver diseas Nother causes of de Severe liver diseas Other causes of de Severe liver diseas Nother causes of de Severe liver diseas S	ass (subnormal creat tetracycline, glucoco 0:1) WITH ELEVATED (BUN rises dispropo superimposed on rer 0:1) WITH DECREASE osis. Id starvation. 2: creased urea synthes urea rather than creat monemias (urea is vi f inappropiate antidi 0:1) WITH INCREASEI py (accelerates conve eleases muscle creat who develop renal fa : sis (acetoacetate cau creased BUN/creatin apy (interferes with o UCR FILTERATION RA DES Normal H Kidney norma Mild de Moderate	inine production) rticoids) CREATININE LEVELS tionately more that al disease. D BUN : D BUN : is. attinine diffuses out rtually absent in bluuretic harmone) du D CREATININE: ersion of creatine to nine). ilure. Ses false increase i ne ratio). reatinine measurer E: CRIPTION damage with l or high GFR crease in GFR	n creatinine) (e. of extracellular ood). e to tubular sec o creatinine). n creatinine wit ment). GFR (mL/mir >90 >90 60 -8	fluid). retion of urea. n certain methodo	logies,resulting in no SSOCIATED FINDING No proteinuria Presence of Protein ,	S	nydrat





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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. SHALLY KHANNA		
AGE/ GENDER	: 56 YRS/MALE	PATIENT ID	: 1741972
COLLECTED BY	:	REG. NO./LAB NO.	: 012502010010
REFERRED BY	:	REGISTRATION DATE	: 01/Feb/2025 08:54 AM
BARCODE NO.	: 01524743	COLLECTION DATE	: 01/Feb/2025 11:00AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 01/Feb/2025 12:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ГТ	
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)







	1	Dr. Vinay Chopra 1D (Pathology & Microb Chairman & Consultant I		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SHALLY	KHANNA			
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CLIENT CODE.	: KOS DIAGNO	STIC LAB	REP	ORTING DATE	: 01/Feb/2025 02:23PM
CLIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, AMBAL	A CANTT	Unit	Biological Reference interval
			IRON PRO	DFILE	
IRON: SERUM by FERROZINE, SPECT	ROPHOTOMETRY		40.3 ^L	µg/dL	59.0 - 158.0
UNSATURATED IRC SERUM by FERROZINE, SPECT			393.23 ^H	µg/dL	150.0 - 336.0
TOTAL IRON BINDI SERUM		(TIBC)	133.53 ^H	µg/dL	230 - 430
%TRANSFERRIN SA	ATURATION: SI		9.3 ^L	%	15.0 - 50.0
TRANSFERRIN: SEI	RUM	. ,	307.81	mg/dL	200.0 - 350.0
INTERPRETATION:-	LES	ANEMIA OF CHRONIC		ON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT

	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC): It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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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





		Chopra y & Microbiology) consultant Patholog	M	m Chopra D (Pathology) nt Pathologist	
NAME	: Mr. SHALLY KHANNA				
AGE/ GENDER	: 56 YRS/MALE		PATIENT ID	: 1741972	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Refe	rence interval
	1		CRINOLOGY CTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUN	0.758 OASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE IMMUN	9.18 OASSAY)	μgm/d	L 4.87 - 12.60	
by CMIA (CHEMILUMIN	TING HORMONE (TSH): SE		µIU/ml	L 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	. TSH stimulates the p	production and secretion of the	<i>pm. The variation is of the order of 5</i> metabolically active hormones, thyr her underproduction (hypothyroidis	oxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH]
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or L		Normal or Low Normal	High	1

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (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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 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





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			/
Test Name	Value	Unit	Biological Reference interval

i est Name			value	UIII		biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LE	VELS 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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741972)12502010010)1/Feb/2025 10:56 AM)1/Feb/2025 11:00AM)1/Feb/2025 12:58PM
01/Feb/2025 10:56 AM 01/Feb/2025 11:00AM
01/Feb/2025 11:00AM
01/Feb/2025 12:58PM
Biological Reference interval
0.0 - 6.0
f

not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.
 Oral contraceptives may increase CRP levels.

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)





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path	ogy)	Pr. Yugam MD (F Consultant P	Pathology)
NAME : Mr. SHA	LLY KHANNA			
AGE/ GENDER : 56 YRS/	MALE	PATIENT ID		: 1741972
COLLECTED BY :		REG. NO./LAB	NO.	: 012502010010
REFERRED BY :		REGISTRATIO	N DATE	:01/Feb/202508:54 AM
BARCODE NO. : 0152474	13	COLLECTION I		: 01/Feb/2025 11:00AM
	GNOSTIC LAB	REPORTING D		: 01/Feb/2025 05:23PM
	NICHOLSON ROAD, AMBALA C.			. 01/1 CD/ 2020 00.201 M
Test Name	Valu	1e	Unit	Biological Reference interval
		VITAMINS		
	VITAMIN D/2	25 HYDROXY VIT	'AMIN D3	
VITAMIN D (25-HYDROXY VI by clia (chemiluminescence imi		şL	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFICIENT:	< 20		ng/	ml
INSUFFICIENT:	21 - 29	9	ng/	
PREFFERED RANGE:	30 - 10	0	ng/	
conversion of 7- dihvdrocholeca 2.25-OHVitamin D represents th tissue and tightly bound by a tra 3.Vitamin D plays a primary role phosphate reabsorption, skeleta 4.Severe deficiency may lead to DECREASED: 1.Lack of sunshine exposure. 2.Inadequate intake, malabsorp 3.Depressed Hepatic Vitamin D 2 4.Secondary to advanced Liver d	Iciferol to Vitamin D3 in the skin he main body resevoir and trans nsport protein while in circulati in the maintenance of calcium l I calcium deposition, calcium me failure to mineralize newly form tion (celiac disease) 55- hydroxylase activity isease yperparathroidism (Mild to Moc	n upon Ultraviolet expo sport form of Vitamin E ion. homeostatis. It promo iobilization, mainly req ned osteoid in bone, re derate deficiency)	osure. Dand transpo otes calcium ulated by pa esulting in ric	calciferol (from animals, Vitamin D3), or by ort form of Vitamin D, being stored in adipose absorption, renal calcium absorption and rathvroid harmone (PTH). kets in children and osteomalacia in adults.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







				(Pathology)	
NAME	: Mr. SHALLY KHANNA				
AGE/ GENDER	: 56 YRS/MALE	PATI	ENT ID	: 1741972	
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012502010010	
REFERRED BY		RFCI	STRATION DATE	: 01/Feb/2025 08:54 AM	
BARCODE NO.	: 01524743		ECTION DATE	: 01/Feb/2025 11:00AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 01/Feb/2025 03:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
INTERPRETATION:-				1012	
	ED VITAMIN B12		DECREASED VITAMIN	NB12	
1.Ingestion of Vitamin C		1.Pregnancy			
2.Ingestion of Estrog 3.Ingestion of Vitam		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
4.Hepatocellular inj			3.Ethanol Igestion 4. Contraceptive Harmones		
5.Myeloproliferative		5.Haemodialys			
6.Uremia		6. Multiple My			
0.0101111	amin) is necessary for hemator	poiesis and normal neuro	nal function.		
1.Vitamin B12 (cobala					
1.Vitamin B12 (cobala 2.In humans, it is obt	ained only from animal protei	ns and requires intrinsic f	actor (IF) for absorp	ition. and roturning it to the liver: very little is	
1.Vitamin B12 (cobala 2.In humans, it is obt	ained only from animal protei	ns and requires intrinsic f ically, reabsorbing vitamii	actor (IF) for absorp n B12 from the ileun	tion. n and returning it to the liver; very little is	
1.Vitamin B12 (cobala 2.In humans, it is obt 3.The body uses its vi excreted. 4.Vitamin B12 deficie	ained only from animal protein tamin B12 stores very econom ncy may be due to lack of IF se	ically, reabsorbing vitami	n B12 from the ileun	tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg	
1.Vitamin B12 (cobala 2.In humans, it is obt 3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small	ained only from animal protein tamin B12 stores very econom ncy may be due to lack of IF se intestinal diseases).	ically, reabsorbing vitamin cretion by gastric mucosa	n B12 from the ileun a (eg, gastrectomy, g	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg	
1.Vitamin B12 (cobala 2.In humans, it is obt 3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie	ained only from animal protein tamin B12 stores very econom ncy may be due to lack of IF se intestinal diseases). ncy frequently causes macrocy	ically, reabsorbing vitamii cretion by gastric mucosa /tic anemia, glossitis, peri	n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy,	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of	
1.Vitamin B12 (cobala 2.In humans, it is obt 3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect:	ained only from animal protein tamin B12 stores very econom ncy may be due to lack of IF se intestinal diseases). ncy frequently causes macrocy coordination, and affective be s without macrocytic anemia.	ically, reabsorbing vitamii cretion by gastric mucosa ytic anemia, glossitis, peri havioral changes. These r	n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy, nanifestations may o	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	
1.Vitamin B12 (cobala 2.In humans, it is obt 3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect: 6.Serum methylmalor	ained only from animal protein tamin B12 stores very econom ncy may be due to lack of IF se intestinal diseases). ncy frequently causes macrocy coordination, and affective be s without macrocytic anemia. nic acid and homocysteine leve	ically, reabsorbing vitamii cretion by gastric mucosa ytic anemia, glossitis, peri havioral changes. These r els are also elevated in vit	n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy, nanifestations may o amin B12 deficiency	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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



Page 20 of 23





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SHALLY KHANNA			
AGE/ GENDER	: 56 YRS/MALE	PAT	IENT ID	: 1741972
COLLECTED BY	:	REG	. NO./LAB NO.	: 012502010010
REFERRED BY	:	REG	ISTRATION DATE	: 01/Feb/2025 08:54 AM
BARCODE NO.	: 01524743	COL	LECTION DATE	: 01/Feb/2025 11:00AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 01/Feb/2025 10:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	URINE R	CLINICAL PAT OUTINE & MICROS		ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEVE	ED TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLO	OW	PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMIN				
REACTION by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	NEUTRAL		
PROTEIN by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	7		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-v	e)	NEGATIVE (-ve)
RED BLOOD CELLS		NEGATIVE (-v	e) /HPF	0 - 3

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







EXCELLENCE IN HEALTHCARE & DIAGNOSTIC Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

: Mr. SHALLY KHANNA		
: 56 YRS/MALE	PATIENT ID	: 1741972
:	REG. NO./LAB NO.	: 012502010010
:	REGISTRATION DATE	: 01/Feb/2025 08:54 AM
: 01524743	COLLECTION DATE	:01/Feb/202511:00AM
: KOS DIAGNOSTIC LAB	REPORTING DATE	:01/Feb/2025 10:00AM
: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Value	Unit	Biological Reference interval
	: 56 YRS/MALE : : : 01524743 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT	: 56 YRS/MALEPATIENT ID:REG. NO./LAB NO.:REGISTRATION DATE: 01524743COLLECTION DATE: KOS DIAGNOSTIC LABREPORTING DATE: 6349/1, NICHOLSON ROAD, AMBALA CANTT

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/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



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

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







	MD (F	/inay Chopra Pathology & Microbiology) nan & Consultant Pathologi		(Pathology)	
NAME	: Mr. SHALLY KHA	NNA			
AGE/ GENDER	: 56 YRS/MALE		PATIENT ID	: 1741972	
COLLECTED BY	:		REG. NO./LAB NO.	: 012502010010	
REFERRED BY	:		REGISTRATION DATE	: 01/Feb/2025 08:54 AM	
BARCODE NO.	:01524743		COLLECTION DATE	:01/Feb/202511:00AM	
CLIENT CODE.	: KOS DIAGNOSTIC	LAB	REPORTING DATE	:01/Feb/202503:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANT	r		
Test Name		Value	Unit	Biological Reference interva	
	MICR	OALBUMIN/CREATI	NINE RATIO - RANDO	DM URINE	
MICROALBUMIN: RANDOM URINE		50.21 ^H	mg/L	0 - 25	
CREATININE: RAN by SPECTROPHOTON		186.28	mg/dL	20 - 320	
MICROALBUMIN/ RANDOM URINE by SPECTROPHOTON INTERPRETATION:-	CREATININE RATIO Metry	- 26.95	mg/g	0 - 30	
PHYSIOLOGICALLY	NORMAL:	mg/L	0 - 30		
MICROALBUMINUR	IA:	mg/L	30 - 300		
	A:	mg/L	> 300		

Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction. 2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure. 3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.

4. Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the

4.IVICTOAIDUMINIUTIA IS THE CONDITION WHEN URINARY Albumin excretion is between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.
5.Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension.
6.Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction.
NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dl OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN:CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS APPROPIATE.

Rechecked

*** End Of Report ***





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT