



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	obiology)		(Pathology)
NAME	: Mr. VINOD WADHWA			
AGE/ GENDER	: 67 YRS/MALE		PATIENT ID	: 1814878
COLLECTED BY	:		REG. NO./LAB NO.	: 042504020002
REFERRED BY	:		REGISTRATION DATE	: 02/Apr/2025 09:20 AM
BARCODE NO.	: A1260772		COLLECTION DATE	: 02/Apr/2025 03:07PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 02/Apr/2025 03:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWASTH	IYA WE	LLNESS PANEL: (G
	COMPL	ETE BLO	OOD COUNT (CBC)	
RED BLOOD CELI	LS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H by CALORIMETRIC	B)	12.6	gm/dL	12.0 - 17.0
RED BLOOD CELL	(RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.25	Millions	/cmm 3.50 - 5.00
PACKED CELL VOI		38.8 ^L	%	40.0 - 54.0
MEAN CORPUSCUI	LAR VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	91.4	fL	80.0 - 100.0
MEAN CORPUSCU	LAR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.6	pg	27.0 - 34.0
MEAN CORPUSCU	LAR HEMOGLOBIN CONC. (MCHC UTOMATED HEMATOLOGY ANALYZER	C) 32.4	g/dL	32.0 - 36.0
RED CELL DISTRI	BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14	%	11.00 - 16.00
	BUTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		21.51	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IN by CALCULATED	DEX	92.82	RATIO	BETA THALASSEMIA TRAIT:
by CALCOLATED				<= 74.1 IRON DEFICIENCY ANEMIA: >= 74.1
	ELLS (WBCS)			
WHITE BLOOD C	$\mathbf{T} \mathbf{F} \mathbf{C} \mathbf{O} \mathbf{U} \mathbf{N} \mathbf{T} \mathbf{T} \mathbf{C}$	5700	/cmm	4000 - 11000
TOTAL LEUCOCY	Y BY SF CUBE & MICROSCOPY			
NUCLEATED RED		NIL		0.00 - 20.00



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

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 KOS Molecular Lab: Ilnd 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	
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER				
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>				
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	53	%	50 - 70	
LYMPHOCYTES		35	%	20 - 40	
-	Y BY SF CUBE & MICROSCOPY				
EOSINOPHILS	V BY SE CURE & MICROSCORY	5	%	1 - 6	
MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12	
	Y BY SF CUBE & MICROSCOPY	1	70	2 - 12	
BASOPHILS		0	%	0 - 1	
•	Y BY SF CUBE & MICROSCOPY				
ABSOLUTE LEUK	OCYTES (WBC) COUNT				
ABSOLUTE NEUTI		3021	/cmm	2000 - 7500	
	Y BY SF CUBE & MICROSCOPY	1005	,	000 4000	
ABSOLUTE LYMPI	HOCYTE COUNT Y BY SF CUBE & MICROSCOPY	1995	/cmm	800 - 4900	
ABSOLUTE EOSIN		285	/cmm	40 - 440	
	Y BY SF CUBE & MICROSCOPY		,		
ABSOLUTE MONC		399	/cmm	80 - 880	
-	Y BY SF CUBE & MICROSCOPY	0		0 110	
ABSOLUTE BASO	PHIL COUN I Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110	
	OTHER PLATELET PREDICTIV	E MARKERS.			
PLATELET COUN		327000	/cmm	150000 - 450000	
	FOCUSING, ELECTRICAL IMPEDENCE	527000	/ emm	150000 150000	
PLATELETCRIT (F		0.37 ^H	%	0.10 - 0.36	
•	FOCUSING, ELECTRICAL IMPEDENCE				
MEAN PLATELET	,	11	fL	6.50 - 12.0	
-	FOCUSING, ELECTRICAL IMPEDENCE E CELL COUNT (P-LCC)	11(000H	/cmm	30000 - 90000	
	FOCUSING, ELECTRICAL IMPEDENCE	116000 ^H	/ chill	50000 20000	
PLATELET LARGE	E CELL RATIO (P-LCR)	35.4	%	11.0 - 45.0	
	FOCUSING, ELECTRICAL IMPEDENCE				
PLATELET DISTR	IBUTION WIDTH (PDW)	16.4	%	15.0 - 17.0	





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	
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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: Mr. VINOD WADHWA				
: 67 YRS/MALE	PA	ATIENT ID	: 1814878	
:	RI	EG. NO./LAB NO.	: 042504020	002
	BI	CISTRATION DATE	$\cdot 02/4$ pr/2025	09·20 ΔM
· · \ \ 1 260772			1	
			-	
		LFURIING DATE	. 02/ Apr/ 2025	05.57PM
: 6349/1, NICHOLSON ROAD, AN	ABALA CANTT			
	Value	Unit	Biolo	gical Reference interval
	6.4	%	4.0 -	6.4
AGE PLASMA GLUCOSE	136.98	mg/dL	60.00	- 140.00
			(UDAIC) := 0/	
	>= 6.5			
		Age > 19 Years		
			< 7.0	
ic goals for glycemic control	Actions S		>8.0	
		Age < 19 Years therapy:	<7.5	
	MD (Pathology & M Chairman & Consu : Mr. VINOD WADHWA : 67 YRS/MALE : : : A1260772 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AM GLYCOS AEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	: 67 YRS/MALE PA : 67 YRS/MALE RI : A1260772 CO : KOS DIAGNOSTIC SHAHBAD RI : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value CLYCOSYLATED HAE AEMOGLOBIN (HbA1c): 6.4 RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 RMANCE LIQUID CHROMATOGRAPHY) CLICCOSE 120 CLICCOSE 120 CLICCOS	MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD CEO & Consultant : Mr. VINOD WADHWA : 67 YRS/MALE : 67 YRS/MALE : REG. NO./LAB NO. : REGISTRATION DATE : AREGISTRATION DATE : AL260772 : COLLECTION DATE : KOS DIAGNOSTIC SHAHBAD REPORTING DATE : : 6349/1, NICHOLSON ROAD, AMBALA CANTT COLLECTION DATE : 6.4 Walue Unit CARMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 mg/dL RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 mg/dL RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 mg/dL RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE 136.98 mg/dL RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABETES ASSOCIATION (ADA):	MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist : Mr. VINOD WADHWA : : : 1814878 : 67 YRS/MALE PATIENT ID : 1814878 : REG. NO./LAB NO. : 0425040200 : REGISTRATION DATE : 02/Apr/2025 : A1260772 COLLECTION DATE : 02/Apr/2025 : KOS DIAGNOSTIC SHAHBAD REPORTING DATE : : 02/Apr/2025 : 6349/1, NICHOLSON ROAD, AMBALA CANTT : <t< td=""></t<>

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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)

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Page 4 of 16



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cho MD (Pathology & 1 Chairman & Const	Microbiology)	ME	n Chopra D (Pathology) It Pathologist
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. VINOD WADHWA : 67 YRS/MALE : : : A1260772 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, A	MBALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1814878 : 042504020002 : 02/Apr/2025 09:20 AM : 02/Apr/2025 03:07PM : 02/Apr/2025 03:39PM
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SED	IMENTATION RATE	E (ESR)
by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specifi immune disease, but of 2. An ESR can be affect as C-reactive protein 3. This test may also be systemic lupus erythe CONDITION WITH LOW A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav 6. Drugs such as dextr	DIMENTATION RATE (ESR) AATION BY CAPILLARY PHOTOMETRY c test because an elevated result does not tell the health practition sted by other conditions besides in the used to monitor disease activit matosus V ESR h with conditions that inhibit the r dificantly high white blood cell cou- e cell anaemia) also lower the ESI e protein (C-RP) are both markers is not change as rapidly as does CF by as many other factors as is ESR ed, it is typically a result of two typ e a higher ESR, and menstruation	10 often indicates er exactly whe nflammation. F y and response normal sedime int (leucocytos R. of inflammatio RP, either at the making it a be pes of proteins and pregnancy	mm/1st s the presence of inflamma re the inflammation is in th or this reason, the ESR is ty e to therapy in both of the a ntation of red blood cells, s is), and some protein abno n. e start of inflammation or a etter marker of inflammatio , globulins or fibrinogen. y can cause temporary elev	hr 0 - 20 tion associated with infection, cancer and auto- he body or what is causing it. ypically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such as it resolves. m.

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	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. VINOD WADHV	VA		
AGE/ GENDER	: 67 YRS/MALE	PAT	FIENT ID	: 1814878
COLLECTED BY	:	REG	G. NO./LAB NO.	: 042504020002
REFERRED BY	:	REG	GISTRATION DATE	: 02/Apr/2025 09:20 AM
BARCODE NO.	: A1260770	COL	LECTION DATE	: 02/Apr/2025 03:10PM
CLIENT CODE.	: KOS DIAGNOSTIC SI	HAHBAD Rei	PORTING DATE	: 02/Apr/2025 04:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G (F): PLASMA E - PEROXIDASE (GOD-PO	D) 115.43^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	lucose level below 100 lucose level between 10 on of 75 gms of glucose lucose level of above 12) is recommended for all such	patients. diabetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al natory for diabetic state.

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



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		hopra & Microbiology) onsultant Pathologis	MD	n Chopra D (Pathology) ht Pathologist
NAME : M	r. VINOD WADHWA			
AGE/ GENDER : 67	Y YRS/MALE		PATIENT ID	: 1814878
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	1260771	_	COLLECTION DATE	: 02/Apr/2025 03:08PM
	OS DIAGNOSTIC SHAHBAI 349/1, NICHOLSON ROAD	_	REPORTING DATE	: 02/Apr/2025 04:07PM
Test Name		Value	Unit	Biological Reference interval
		varue		
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXIDASE		135.98	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRUE VOEDIDES (CEDI	D.(/ 17	240.0
TRIGLYCERIDES: SERU by GLYCEROL PHOSPHATE		164.61 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTEROL (D	IRECT): SERIIM	50.76	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
by SELECTIVE INHIBITION	inder), obien	20.70	ing/dL	BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SE by CALCULATED, SPECTRO		52.3	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 CHOLESTER(by CALCULATED, SPECTRO		85.22	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: S		32.92	mg/dL	0.00 - 45.00
by CALCULATED, SPECTRO TOTAL LIPIDS: SERUM		436.57	mg/dL	350.00 - 700.00
by CALCULATED, SPECTRO	PHOTOMETRY			
CHOLESTEROL/HDL RA		2.68	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	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	-	1.03	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.24	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.

 Cow 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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	. 00 10/ 1, Menolson Road, Alvid			
Test Name		Value	Unit	Biological Reference interval
	LIVER F	UNCTIO	N TEST (COMPLETE)
BILIRUBIN TOTAL		0.44	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SI	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRI by CALCULATED, SPE	ECT (UNCONJUGATED): SERUM	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	Л /RIDOXAL PHOSPHATE	29.65	U/L	7.00 - 45.00
SGPT/ALT: SERUM	1 (RIDOXAL PHOSPHATE	27.44	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.08	RATIO	0.00 - 46.00
ALKALINE PHOSP by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	70.62	U/L	40.0 - 130.0
GAMMA GLUTAM	YL TRANSFERASE (GGT): SERUM PHTOMETRY	1 25.04	U/L	0.00 - 55.0
TOTAL PROTEINS		7.09	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.44	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	N	2.65	gm/dL	2.30 - 3.50
A : G RATIO: SERU	JM	1.68	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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BARCODE NO.	: A1260771	COLLECTION DA	ATE :	02/Apr/2025 03:08PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DA	. TE :	02/Apr/2025 04:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (SI	ightly Increas	sed)

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).

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

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

MBBS, MD (PATHOLOGY)

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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







	MD (Pathology 8	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		r Chopra (Pathology) Pathologist			
NAME	: Mr. VINOD WADHWA	: Mr. VINOD WADHWA					
AGE/ GENDER	: 67 YRS/MALE		PATIENT ID	: 1814878			
COLLECTED BY	:		REG. NO./LAB NO.	: 042504020002			
REFERRED BY	:		REGISTRATION DATE	: 02/Apr/2025 09:20 AM			
BARCODE NO.	: A1260771		COLLECTION DATE	: 02/Apr/2025 03:08PM			
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 02/Apr/2025 05:18PM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interva			
	KIDN	EY FUNCTIO	N TEST (COMPLET	E)			
UREA: SERUM		39.04	mg/dL	10.00 - 50.00			
	IATE DEHYDROGENASE (GLDH)	39.01	ing/ul/	10.00 50.00			
CREATININE: SER	-	1.48 ^H	mg/dL	0.40 - 1.40			
by ENZYMATIC, SPEC	ROGEN (BUN): SERUM	18.24	mg/dL	7.0 - 25.0			
by CALCULATED, SPECTROPHOTOMETRY		10.2.	ing all	1.0 2010			
	ROGEN (BUN)/CREATININE	12.32	RATIO	10.0 - 20.0			
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY						
UREA/CREATININ		26.38	RATIO				
by CALCULATED, SPE		4.7	/ 17	2.60 7.70			
URIC ACID: SERUN by URICASE - OXIDAS		4.7	mg/dL	3.60 - 7.70			
CALCIUM: SERUM		9.23	mg/dL	8.50 - 10.60			
by ARSENAZO III, SPE		2.5	Ib/em	2 20 4 70			
PHOSPHOROUS: SI by PHOSPHOMOLYBE	EKUM DATE, SPECTROPHOTOMETRY	3.5	mg/dL	2.30 - 4.70			
ELECTROLYTES							
SODIUM: SERUM		145.1	mmol/L	135.0 - 150.0			
by ISE (ION SELECTIV		4.20	1/7	2.50 5.00			
POTASSIUM: SERU by ISE (ION SELECTIV		4.38	mmol/L	3.50 - 5.00			
CHLORIDE: SERUN	A	108.82	mmol/L	90.0 - 110.0			
by ISE (ION SELECTIV							
	MERULAR FILTERATION RA						
ESTIMATED GLON (eGFR): SERUM	MERULAR FILTERATION RA	TE 51.5					
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)

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 care@koshealthcare.com

 www.koshealthcare.com
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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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NAME	: Mr. VINOD WA	DHWA				
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	•					
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BARCODE NO.	: A1260771		COLLE	CTION DATE	: 02/Apr/2025 03	8:08PM
CLIENT CODE.	: KOS DIAGNOST	TC SHAHBAD	REPOR	TING DATE	: 02/Apr/2025 05	:18PM
LIENT ADDRESS	: 6349/1, NICHC	LSON ROAD, AMBALA	CANTT			
Fest Name		Va	alue	Unit	Biologic	cal Reference interval
5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	xia, high fever). (e.g. ureter coloste ass (subnormal cre tetracycline, gluco 0:1) WITH ELEVATE (BUN rises dispro superimposed on f	eatinine production) corticoids) ED CREATININE LEVELS: portionately more than renal disease.	-			ome, high protein diet,
5. Excess protein inta burns, 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 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 c 3. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (n	ke or production o xia, high fever). (e.g. ureter colosti ass (subnormal cre tetracycline, gluco 0:1) WITH ELEVATE (BUN rises dispro superimposed on 10:1) WITH DECREA osis. d starvation. e. creased urea synth urea rather than c monemias (urea is of inappropiate ant 10:1) WITH INCREA py (accelerates col eleases muscle cre	omy) eatinine production) corticoids) ED CREATININE LEVELS: portionately more than renal disease. SED BUN : nesis. reatinine diffuses out of virtually absent in bloo idiuretic harmone) due SED CREATININE: nversion of creatine to e eatinine).	n creatinine) (e.g of extracellular f od). e to tubular secre	obstructive uro uid).		ome, high protein diet,
5. Excess protein inta purns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia DECREASED RATIO (>1 9. Acute tubular necr 9. Low protein diet ar 9. Severe liver disease 1. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 1. Phenacimide thera 1. Rhabdomyolysis (ro 8. Muscular patients	ke or production o xia, high fever). (e.g. ureter colosti ass (subnormal cre tetracycline, gluco 0:1) WITH ELEVATE (BUN rises dispro superimposed on 10:1) WITH DECREA osis. d starvation. e. creased urea synth urea rather than c monemias (urea is of inappropiate ant 10:1) WITH INCREA py (accelerates col eleases muscle cre who develop renal	omy) eatinine production) corticoids) ED CREATININE LEVELS: portionately more than renal disease. SED BUN : nesis. reatinine diffuses out of virtually absent in bloo idiuretic harmone) due SED CREATININE: nversion of creatine to e eatinine).	n creatinine) (e.g of extracellular f od). e to tubular secre	obstructive uro uid).		ome, high protein diet,
5. Excess protein inta purns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia 9. Prerenal azotemia 9. Certased RATIO (<1 9. Acute tubular necr 9. Low protein diet ar 9. Severe liver disease 1. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. 9. Pregnancy. 9. Pregnancy. 9. Pregnancy. 9. Phenacimide thera 1. Phenacimide thera 1. Rhabdomyolysis (ru 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido	ke or production o xia, high fever). (e.g. ureter colosti ass (subnormal cre tetracycline, gluco 0:1) WITH ELEVATE (BUN rises dispro superimposed on 10:1) WITH DECREA osis. d starvation. e. creased urea synth urea rather than c monemias (urea is of inappropiate ant 10:1) WITH INCREA py (accelerates col eleases muscle cre who develop renal : sis (acetoacetate co	omy) eatinine production) corticoids) ED CREATININE LEVELS: portionately more than renal disease. SED BUN : nesis. reatinine diffuses out of virtually absent in bloc idiuretic harmone) due SED CREATININE: nversion of creatine to eatinine). failure.	n creatinine) (e.g of extracellular f od). e to tubular secre creatinine).	obstructive uro uid). tion of urea.	pathy).	ome, high protein diet, mal ratio when dehydration
5. Excess protein inta purns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia 10. Postrenal azotemia 11. Acute tubular necr 12. Low protein diet ar 13. Severe liver disease 14. Other causes of de 15. Repeated dialysis (16. Inherited hyperam 17. SIADH (syndrome c 18. Pregnancy. 19. Pregnancy. 10. Phenacimide thera 10. Phenacimide thera 10. Muscular patients 10. Muscular patients 10. Diabetic ketoacido 11. hould produce an in-	ke or production o xia, high fever). (e.g. ureter colosti ass (subnormal cre tetracycline, gluco 0:1) WITH ELEVATE (BUN rises dispro superimposed on 0:1) WITH DECREA osis. d starvation. e. creased urea synth urea rather than c monemias (urea is of inappropiate ant 10:1) WITH INCREA py (accelerates col eleases muscle cre who develop renal : sis (acetoacetate c creased BUN/crea apy (interferes wit	omy) eatinine production) corticoids) ED CREATININE LEVELS: portionately more than renal disease. SED BUN : nesis. reatinine diffuses out of virtually absent in bloo idiuretic harmone) due SED CREATININE: neversion of creatine to the atinine). failure. causes false increase in tinine ratio). h creatinine measurem	n creatinine) (e.g of extracellular f od). e to tubular secre creatinine).	obstructive uro uid). tion of urea.	pathy).	

CKD STAGE	TAGE 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		





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

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



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 care@koshealthcare.com

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NAME	: Mr. VINOD WADHWA		
AGE/ GENDER	: 67 YRS/MALE	PATIENT ID	: 1814878
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REFERRED BY	:	REGISTRATION DATE	: 02/Apr/2025 09:20 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT	
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 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



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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. VINOD WADHWA			
AGE/ GENDER	: 67 YRS/MALE	РА	TIENT ID	: 1814878
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CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, A		PORTING DATE	: 02/Apr/2025 03:22PM
Test Name		Value	Unit	Biological Reference interv
		CLINICAL PA	THOLOGY	
	URINE ROU	TINE & MICRO	OSCOPIC EXAMI	NATION
PHYSICAL EXAM	INATION			
QUANTITY RECIEV	VED TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLO	DW	PALE YELLOW
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVIT	Y TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAN				
REACTION		ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	3+		NEGATIVE (-ve)
pН	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

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Test Name		Value Unit	Biological Reference interval
RED BLOOD CELL	S (BBCs)	NEGATIVE (-ve) /HPE	0 - 3

			C C
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/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







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CLIENT CODE.	: KOS DIAGNOST	C SHAHBAD	R	EPORTING DATE	: 02/Apr/2025 06:15PM	
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AN	MBALA CANTT			
Test Name			Value	Unit	Biological Reference in	terval
	MICR	OALBUMI	N/CREATINI	NE RATIO - RAND	OM URINE	
MICROALBUMIN: by SPECTROPHOTON			125.52 ^H	mg/L	0 - 25	
CREATININE: RAN by SPECTROPHOTON	DOM URINE		42.42	mg/dL	20 - 320	
MICROALBUMIN/ RANDOM URINE by SPECTROPHOTOM		TIO -	295.9 ^H	mg/g	0 - 30	
INTERPRETATION:- PHYSIOLOGICALLY	NORMAL:	mg/L		0 - 30		
MICROALBUMINUR		mg/L		30 - 300		
1		5				

Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction.

 Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure.
 Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure.
 Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.
 Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.
 Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension.
 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/d) 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 Appendiate APPROPIATE.

*** End Of Report ***





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

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



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