

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P			Pathology)	
NAME : Mr. DI	HARAM PAL				
AGE/ GENDER : 48 YRS	S/MALE		PATIENT ID	: 1818684	
COLLECTED BY :			REG. NO./LAB NO.	:0125040	50018
REFERRED BY :			REGISTRATION DATE	:05/Apr/20	025 09:35 AM
BARCODE NO. : 01528			COLLECTION DATE	-	025 09:35AM
	IAGNOSTIC LAB		REPORTING DATE	:05/Apr/20	025 09:57AM
CLIENT ADDRESS : 6349/	1, NICHOLSON ROAD, AMBALA	A CAN I I			
Test Name	V	alue	Unit	Bi	ological Reference interval
				Y	
			CLLNESS PANEL: C	J	
		TE BLO	OOD COUNT (CBC)		
RED BLOOD CELLS (RBC) HAEMOGLOBIN (HB)	<u>S) COUNT AND INDICES</u>	15	mb/m		2.0 - 17.0
by CALORIMETRIC		15	gm/dL	1	2.0 - 17.0
RED BLOOD CELL (RBC) Co by HYDRO DYNAMIC FOCUSING,		5.76 ^H	Millions/	cmm 3	.50 - 5.00
PACKED CELL VOLUME (P		45.2	%	4	0.0 - 54.0
by CALCULATED BY AUTOMATE MEAN CORPUSCULAR VOL		-0 J	fL	0	0.0 - 100.0
by CALCULATED BY AUTOMATE		78.4 ^L	IL	0	0.0 - 100.0
MEAN CORPUSCULAR HAE by CALCULATED BY AUTOMATE	. ,	26.1 ^L	pg	2	7.0 - 34.0
MEAN CORPUSCULAR HEN		33.3	g/dL	3	2.0 - 36.0
by CALCULATED BY AUTOMATER RED CELL DISTRIBUTION		13.8	%	1	1.00 - 16.00
by CALCULATED BY AUTOMATE		15.8	%	1	1.00 - 10.00
RED CELL DISTRIBUTION by CALCULATED BY AUTOMATE		40.8	fL	3	5.0 - 56.0
MENTZERS INDEX	DITENTATOLOGITANALIZEN	13.61	RATIO	В	BETA THALASSEMIA TRAIT: -
by CALCULATED					3.0
					RON DEFICIENCY ANEMIA: 13.0
GREEN & KING INDEX		56.55	RATIO		BETA THALASSEMIA TRAIT:
by CALCULATED					= 74.1 RON DEFICIENCY ANEMIA:
					= 74.1
WHITE BLOOD CELLS (W	(BCS)				
TOTAL LEUCOCYTE COUN		8300	/cmm	4	000 - 11000
by FLOW CYTOMETRY BY SF CU NUCLEATED RED BLOOD		NIL		0	.00 - 20.00
by AUTOMATED 6 PART HEMATO	DLOGY ANALYZER				
NUCLEATED RED BLOOD	CELLS (nRBCS) %	NIL	%	<	10 %
a staat Hubble a			0		
		1			





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

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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mr. DHARAM PAL			
AGE/ GENDER	: 48 YRS/MALE	PATIEN	T ID	: 1818684
COLLECTED BY	:	REG. NO)./LAB NO.	: 012504050018
REFERRED BY	:	REGIST	RATION DATE	: 05/Apr/2025 09:35 AM
BARCODE NO.	: 01528383		TION DATE	: 05/Apr/2025 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		FING DATE	: 05/Apr/2025 09:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			
Test Name		Value	Unit	Biological Reference interval
•	UTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS		50	%	50 - 70
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	20	0/	20 40
	Y BY SF CUBE & MICROSCOPY	38	%	20 - 40
EOSINOPHILS		7 ^H	%	1 - 6
-	Y BY SF CUBE & MICROSCOPY			
MONOCYTES	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	- /		
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTF		4150	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	2154	,	000 4000
ABSOLUTE LYMPH	HOCYTE COUNT Y BY SF CUBE & MICROSCOPY	3154	/cmm	800 - 4900
ABSOLUTE EOSIN		581 ^H	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE MONO		415	/cmm	80 - 880
ABSOLUTE BASOP	Y BY SF CUBE & MICROSCOPY PHIL COUNT	0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY	U U	/ emm	0 110
PLATELETS AND	OTHER PLATELET PREDICTIV	/E MARKERS.		
PLATELET COUNT	Γ (PLT) FOCUSING, ELECTRICAL IMPEDENCE	235000	/cmm	150000 - 450000
PLATELETCRIT (P		0.3	%	0.10 - 0.36
MEAN PLATELET		13 ^H	fL	6.50 - 12.0
	OCUSING, ELECTRICAL IMPEDENCE			
	E CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	106000 ^H	/cmm	30000 - 90000
-	E CELL RATIO (P-LCR)	45.1 ^H	%	11.0 - 45.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE		,.	
PLATELET DISTRI	IBUTION WIDTH (PDW)	16.7	%	15.0 - 17.0





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Test Name	Valu	e Unit	Biological Reference interval

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVER	AEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	7.4 ^H 165.68 ^H	% mg/dL	4.0 - 6.4 60.00 - 140.00
	AS PER AMERICAN D	IABETES ASSOCIATION	N (ADA):	
	REFERENCE GROUP	GLYCOS	SYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes) iagnosing Diabetes		<u>5.7 - 6.4</u> >= 6.5	
D	lagnosing Diabetes	-	Age > 19 Years	
		Goals of Th		< 7.0
Therapeut	ic goals for glycemic control	Actions Sug	gested:	>8.0
			Age < 19 Years	
		Goal of th		<7.5

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 HbAIc. 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.



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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



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
Test Ivallie		value	Omt	biological Reference interval
	ERYTHR	OCYTE SED	IMENTATION RATE	(ESR)
by RED CELL AGGREG	DIMENTATION RATE (ESR) ATION BY CAPILLARY PHOTOMET) 26^H	mm/1st h	
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), signi as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected I 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dextr	does not tell the health practitic ted by other conditions besides the used to monitor disease active matosus / ESR with conditions that inhibit the ficantly high white blood cell co cell anaemia) also lower the E protein (C-RP) are both marker to change as rapidly as does by as many other factors as is ES d, it is typically a result of two e a higher ESR, and menstruatio	oner exactly whe s inflammation. F vity and response e normal sedime ount (leucocytos SR. cRP, either at the SR, making it a be types of proteins on and pregnanc	re the inflammation is in the or this reason, the ESR is typ to therapy in both of the a ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or as tter marker of inflammation , globulins or fibrinogen. / can cause temporary eleva	e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves. n .





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Test Name	AB IN ROAD, AMBALA CAN Value LINICAL CHEM GLUCO	Unit	: 05/Apr/2025 09: : 05/Apr/2025 12:	35 AM 35AM
COLLECTED BY : REFERRED BY : BARCODE NO. : 01528383 CLIENT CODE. : KOS DIAGNOSTIC L CLIENT ADDRESS : 6349/1, NICHOLSO Test Name CLUCOSE FASTING (F): PLASMA	N ROAD, AMBALA CAN Value	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE TT Unit	: 012504050018 : 05/Apr/2025 09: : 05/Apr/2025 09: : 05/Apr/2025 12:	:35 AM :35AM 54PM
REFERRED BY : BARCODE NO. : 01528383 CLIENT CODE. : KOS DIAGNOSTIC L CLIENT ADDRESS : 6349/1, NICHOLSO Test Name CI GLUCOSE FASTING (F): PLASMA	N ROAD, AMBALA CAN Value	REGISTRATION DATE COLLECTION DATE REPORTING DATE TT Unit	: 05/Apr/2025 09: : 05/Apr/2025 09: : 05/Apr/2025 12:	:35 AM :35AM 54PM
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CLIENT ADDRESS : 6349/1, NICHOLSO Fest Name CL GLUCOSE FASTING (F): PLASMA	N ROAD, AMBALA CAN Value	TT Unit		
Test Name CI GLUCOSE FASTING (F): PLASMA	Value LINICAL CHEM	Unit	Biologic	al Reference interval
CI GLUCOSE FASTING (F): PLASMA	LINICAL CHEM		Biologic	al Reference interval
GLUCOSE FASTING (F): PLASMA				
NTERPRETATION				BETIC: 100.0 - 125.0 TC: > 0R = 126.0
IN ACCORDANCE WITH AMERICAN DIABETES A 1. A fasting plasma glucose level below 100 2. A fasting plasma glucose level between 10 test (after consumption of 75 gms of glucose 3. A fasting plasma glucose level of above 12 such patients. A fasting plasma glucose leve	mg/dl is considered no 00 - 125 mg/dl is consic e) is recommended for a 25 mg/dl is highly sugge	rmal. lered as glucose intolerant o all such patients. estive of diabetic state. A rep	peat post-prandial is str	ongly recommended for a

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Apr/2025 01:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO	OTAL: SERUM	172.13	mg/dL	OPTIMAL : < 200.0
by CHOLESTEROL OX	IDASE PAP		6	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES:		109.81	mg/dL	OPTIMAL : < 150.0
by GLYCEROL PHOSP	PHATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $>$ OR = 500.0
	DL (DIRECT): SERUM	37.59	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBIT	ION			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTERO		112.58	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0
				VERY HIGH: $> OR = 190.0$
NON HDL CHOLES by CALCULATED, SPE		134.54 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0
by CALCOLATED, ST L	CINCINGTOMETRI			BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0
VI DI CUOI ESTER		21.04	maldI	VERY HIGH: $> OR = 220.0$
VLDL CHOLESTER by CALCULATED, SPE		21.96	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SE		454.07	mg/dL	350.00 - 700.00
by CALCULATED, SPE		4.58 ^H	RATIO	LOW RISK: 3.30 - 4.40
CHOLESTEROL/HE		4 58**	IV. III	$L \cup H$ MIDIX, $J \cup J \cup = +, + \cup$

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		2.99	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	2.92 ^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.

 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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Test Name		Value	Unit	Biological Reference interval
	LIVER F	UNCTIO	N TEST (COMPLETE)
BILIRUBIN TOTAI		0.93	mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.95	ilig/uL	ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIRI	ECT (UNCONJUGATED): SERUM	0.74	mg/dL	0.10 - 1.00
SGOT/AST: SERUN	M (RIDOXAL PHOSPHATE	42.3	U/L	7.00 - 45.00
SGPT/ALT: SERUN	I (RIDOXAL PHOSPHATE	70.9 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.6	RATIO	0.00 - 46.00
ALKALINE PHOSP		172.31 ^H	U/L	40.0 - 130.0
	IYL TRANSFERASE (GGT): SERUN PHTOMETRY	4 30.16	U/L	0.00 - 55.0
TOTAL PROTEINS	S: SERUM	7.46	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	[4.31	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		3.15	gm/dL	2.30 - 3.50
A : G RATIO: SERU	JM	1.37	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

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





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Page 9 of 15





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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slight	y Increased)

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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	Test Name		Value	Unit	Biological Reference interval				
	L								
		KID	NEY FUNCTION	N TEST (COMPLETH	Ξ)				
	UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM		29.03	mg/dL	10.00 - 50.00				
			1.1	mg/dL	0.40 - 1.40				
			13.57	mg/dL	7.0 - 25.0				
			12.34	RATIO	10.0 - 20.0				
	by CALCULATED, SPE	CTROPHOTOMETRY							
	UREA/CREATININ		26.39	RATIO					
	by CALCULATED, SPE URIC ACID: SERUM		5.17	mg/dL	3.60 - 7.70				
	by URICASE - OXIDASE PEROXIDASE								
	CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY		9.43	mg/dL	8.50 - 10.60				
	PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY		2.93	mg/dL	2.30 - 4.70				
	ELECTROLYTES								
	SODIUM: SERUM by ISE (ION SELECTIVI	E ELECTRODE)	142.9	mmol/L	135.0 - 150.0				
	POTASSIUM: SERU		3.88	mmol/L	3.50 - 5.00				
	CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		107.18	mmol/L	90.0 - 110.0				
	ESTIMATED GLON	MERULAR FILTERATION I	RATE						
	(eGFR): SERUM by CALCULATED INTERPRETATION:	IERULAR FILTERATION RA							
		son pro- and post renai azoteni	iu.						

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	٦	Dr. Vinay Cho 1D (Pathology & Chairman & Cons			(Pathology)	
NAME	: Mr. DHARAM	I PAL				
AGE/ GENDER	: 48 YRS/MALE	2		PATIENT ID	: 1818684	
COLLECTED BY	:			REG. NO./LAB NO.	: 012504050018	
REFERRED BY						а. л. л.
				REGISTRATION DATE	: 05/Apr/2025 09:35	
BARCODE NO.	:01528383			COLLECTION DATE	:05/Apr/202509:35	
CLIENT CODE.	: KOS DIAGNOS	STIC LAB		REPORTING DATE	:05/Apr/2025 12:12	2PM
CLIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, A	MBALA CANTT			
Test Name			Value	Unit	Biological	Reference interval
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	xia, high fever). (e.g. ureter colo: ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of	stomy) creatinine produc cocorticoids) TED CREATININE roportionately m n renal disease.	ction) LEVELS :	on, GI bleeding, thyrotoxic ne) (e.g. obstructive uropa	osis, Cushing's syndrom athy).	e, high protein diet,
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients	xia, high fever). (e.g. ureter colos ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. Id starvation. e. creased urea syn urea rather than monemias (urea of inappropiate al 0:1) WITH INCRE py (accelerates c eleases muscle c	stomy) creatinine produc cocorticoids) TED CREATININE oportionately m n renal disease. CRSED BUN : thesis. creatinine diffu: is virtually absentidiuretic harmon ASED CREATININ onversion of cre reatinine).	ction) LEVELS: ore than creatini ses out of extrac nt in blood). one) due to tubu E:	ne) (e.g. obstructive uropa ellular fluid). lar secretion of urea.		e, high protein diet,
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 necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients INAPPROPIATE RATIO	xia, high fever). (e.g. ureter colos ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. d starvation. e. creased urea syn urea rather than monemias (urea of inappropiate al 0:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate	stomy) creatinine produc cocorticoids) TED CREATININE oportionately m n renal disease. EASED BUN : thesis. creatinine diffu- is virtually absentidiuretic harmon ASED CREATININ onversion of cre reatinine). tal failure.	ction) LEVELS: ore than creatini ses out of extrac ht in blood). one) due to tubu E: atine to creatinir	ne) (e.g. obstructive uropa ellular fluid). lar secretion of urea.	athy).	

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



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

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









	Dr. Vinay Chopra MD (Pathology & Microbiol Chairman & Consultant Pat	C//	(Pathology)
NAME	: Mr. DHARAM PAL		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1818684
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BARCODE NO.	: 01528383	COLLECTION DATE	: 05/Apr/2025 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 05/Apr/2025 12:12PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA (CANTT	
Test Name	Val	ue 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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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)







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BARCODE NO.	: 01528383	COI	LECTION DATE		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 05/Apr/2025 09:53AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interva	
		CLINICAL PA	THOLOGY		
	URINE ROU	TINE & MICRO	SCOPIC EXAMI	NATION	
PHYSICAL EXAM	<u>IINATION</u>				
QUANTITY RECIE	VED CTANCE SPECTROPHOTOMETRY	10	ml		
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		AMBER YELL	OW	PALE YELLOW	
		CLEAR		CLEAR	
SPECIFIC GRAVIT	Y CTANCE SPECTROPHOTOMETRY	>=1.030		1.002 - 1.030	
CHEMICAL EXAM					
REACTION		ACIDIC			
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Trace		NEGATIVE (-ve)	
	CTANCE SPECTROPHOTOMETRY				
SUGAR	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
pH	TANGE OF LOT NOP HOT OMETRY	<=5.0		5.0 - 7.5	
	CTANCE SPECTROPHOTOMETRY	New			
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
		Negative		NEGATIVE (-ve)	
		Normal	EU/dL	0.2 - 1.0	
KETONE BODIES	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
BLOOD		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	NEC ATIME (vo)		
	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-	vej	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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 care@koshealthcare.com

 www.koshealthcare.com



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



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

NAME	: Mr. DHARAM PAL				
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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELL by MICROSCOPY ON C	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5	
EDITUELIAL CELL	C	1.0	/LIDE	ADCENT	

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

*** End Of Report ***





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

