



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	M	u m Chopra D (Pathology) ant Pathologist	
NAME	: Mr. ANKUR KESHWANI				
GE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 351334	
OLLECTED BY	:		REG. NO./LAB NO.	:0125022	30023
EFERRED BY	:		REGISTRATION DATE	:23/Feb/2	025 09:01 AM
ARCODE NO.	: 01526015		COLLECTION DATE		025 09:07AM
LIENT CODE. LIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	ALA CANTI	REPORTING DATE	: 23/Feb/20	025 10:10AM
Fest Name		Value	Unit	Bi	iological Reference interval
	COMP		ELLNESS PANEL: 1 .00D COUNT (CBC)	1.5	
	S (RBCS) COUNT AND INDICES				
AEMOGLOBIN (H	B)	15.1	gm/dL	. 1	2.0 - 17.0
ED BLOOD CELL (5.59 ^H	Million	s/cmm 3.	.50 - 5.00
ACKED CELL VOL		43.8	%	4	0.0 - 54.0
EAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	78.4 ^L	fL	8	0.0 - 100.0
IEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.1	pg	2	7.0 - 34.0
IEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	34.6	g/dL	3	2.0 - 36.0
ED CELL DISTRIB	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.3	%	1	1.00 - 16.00
ED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	42	fL	3	5.0 - 56.0
MENTZERS INDEX by CALCULATED		14.03	RATIO	1 II	ETA THALASSEMIA TRAIT: < 3.0 RON DEFICIENCY ANEMIA: 13.0
REEN & KING INI	DEX	20.12	RATIO	6	ETA THALASSEMIA TRAIT:< 5.0 RON DEFICIENCY ANEMIA: >
.,					5.0
-					
VHITE BLOOD CE OTAL LEUCOCYTE		5850	/cmm	4	000 - 11000
VHITE BLOOD CE OTAL LEUCOCYTH by flow cytometr		5850 NIL	/cmm		000 - 11000 .00 - 20.00





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME



Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mr. ANKUR KESHWANI : 41 YRS/MALE PATIEN

MD (Pathology) CEO & Consultant Pathologist

Dr. Yugam Chopra

AGE/ GENDER	: 41 YRS/MALE	PATIENT ID	: 351334
COLLECTED BY	:	REG. NO./LAB NO.	: 012502230023
REFERRED BY	:	REGISTRATION DATE	: 23/Feb/2025 09:01 AM
BARCODE NO.	:01526015	COLLECTION DATE	: 23/Feb/2025 09:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Feb/2025 10:10AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by sf cube & microscopy	52	%	50 - 70
LYMPHOCYTES by flow cytometry by SF cube & microscopy	39	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	3042	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	2282	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	117	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by sf cube & microscopy	410	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	232000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.24	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	67000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	29.1	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0



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BARCODE NO.	: 01526015		TION DATE	: 23/Feb/2025 09:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ING DATE	: 23/Feb/2025 03:11PM
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,		INGDATE	. 23/ FED/ 2023 US.11FW
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAE		5.2	%	4.0 - 6.4
WHOLE BLOOD				
by HPLC (HIGH PERFORM	IANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	102.54	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM	IANCE LIQUID CHROMATOGRAPHY)		ing, az	
INTERPRETATION:				
		BETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEN		1 %
	etic Adults >= 18 years	<5.7		
	Risk (Prediabetes)		- 6.4	
Dia	gnosing Diabetes		= 6.5	
Bidghosing Bidbotos		Age > 19 Years		
Thorapoutic	goals for allocomic control	Goals of Therapy:	< 7.0	
Therapeutic	goals for glycemic control	Actions Suggested:	< 7.0 >8.0 19 Years	

COMMENTS:

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 4.High appropiate.

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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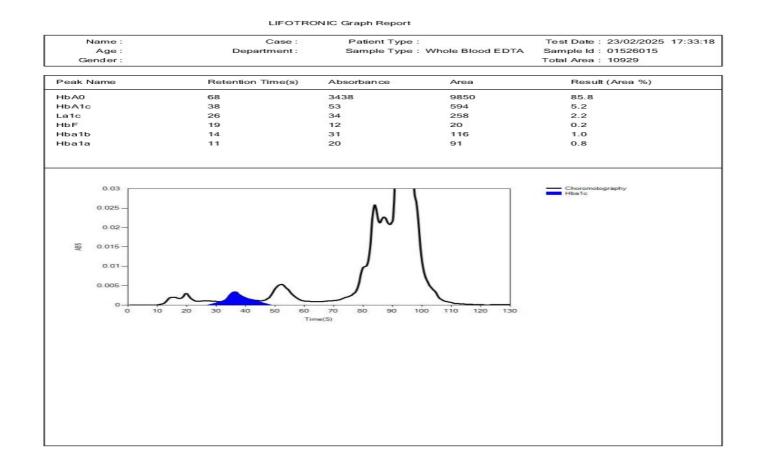
MBBS, MD (PATHOLOGY) KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana







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	Dr. Vinay Chopra		m Chopra







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ARCODE NO.	: 01526015	COLL	ECTION DATE	: 23/Feb/2025 09:07AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPC	RTING DATE	: 23/Feb/2025 10:28AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Cest Name		Value	Unit	Biological Reference interval
TERPRETATION: ESR is a non-speci nmune disease, bui An ESR can be affe s C-reactive proteir This test may also vstemic lupus ervth	t does not tell the health practitione ected by other conditions besides inf be used to monitor disease activity ematosus W ESR	r exactly where the i flammation. For this and response to the ormal sedimentation	nflammation is in the reason, the ESR is typ rapy in both of the ab of red blood cells, su	on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such ove diseases as well as some others, such as ch as a high red blood cell count malities. Some changes in red cell shape (such





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CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 23/Feb/2025 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMIST	RY/BIOCHEMIST	RY
		OL LIGOOD I	EASTINC (E)	
		GLUCOSE 1	rasting (r)	

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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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 23/Feb/2025 01:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TO	TAL: SERUM	124.87	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		121.07	ing, di	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S		91.48	mg/dL	240.0 OPTIMAL: < 150.0
by GLYCEROL PHOSF	PHATE OXIDASE (ENZYMATIC))		BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTERO	L (DIRECT): SERUM ion	32.26	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI by CALCULATED, SPE		74.31	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 CHOLEST by CALCULATED, SPE		92.61	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 CHOLESTER(18.3	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	RUM	341.22 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	3.87	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.3	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		2.84 ^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.

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

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





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Test Name		Value	Unit	Biological Reference
			TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF	PECTROPHOTOMETRY	1.27 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.2	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	1.07 ^H	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	25	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	39.7	U/L	0.00 - 49.00
AST/ALT RATIO: SI by CALCULATED, SPE		0.63	RATIO	0.00 - 46.00
ALKALINE PHOSPH by para nitrophen propanol	IATASE: SERUM yl phosphatase by amino methyl	70.65	U/L	40.0 - 130.0
CAMMA CLUTAMV	TDANCEEDACE (CCT), CEDIM	2714	II/I	0.00 55.0

U/L GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 27.140.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 6.44 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.34 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.1^L gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 2.07^H 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:

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



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Reference interval





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	Biological Ref

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).

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



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	KIDNE	Y FUNCTION	TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	32.97	mg/dL	10.00 - 50.00
CREATININE: SERI	UM	1.05	mg/dL	0.40 - 1.40
BLOOD UREA NITE	COGEN (BUN): SERUM	15.41	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	14.68	RATIO	10.0 - 20.0
UREA/CREATININ		31.4	RATIO	
URIC ACID: SERUM	1	5.9	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		8.59	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH		2.61	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)	139.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.01	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		104.63	mmol/L	90.0 - 110.0
ESTIMATED GLOM	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	91.5		

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.



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	: Yugam C MD (Pa Consultant Pa	thology)		
NAME	: Mr. ANKUR KESHWANI					
AGE/ GENDER	: 41 YRS/MALE	PATIENT ID		351334		
COLLECTED BY		REG. NO./LAB N	0	01250223002	23	
REFERRED BY						
	:	REGISTRATION		23/Feb/2025 09		
BARCODE NO.	: 01526015	COLLECTION DA		23/Feb/2025 09		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DA	TE	23/Feb/2025 01	1:25PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT				
Test Name		Value	Unit	Biologi	ical Reference	interval
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	(e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease.	VELS:	ive uropathy).		
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther 	ass (subnormal creatinine producti tetracycline, glucocorticoids) (0:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. furea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon (0:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	VELS: e than creatinine) (e.g. obstruct s out of extracellular fluid). in blood). e) due to tubular secretion of u ine to creatinine). ase in creatinine with certain m surement).	rea. nethodologie ASSOC	s,resulting in nor IATED FINDINGS proteinuria nce of Protein ,		n dehydrat
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Diherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1	ass (subnormal creatinine producti tetracycline, glucocorticoids) (0:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. furea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon (0:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). rapy (interferes with creatinine mea JLAR FILTERATION RATE: <u>DESCRIPTION</u> Normal kidney function	VELS: e than creatinine) (e.g. obstruct s out of extracellular fluid). in blood). e) due to tubular secretion of union ine to creatinine). ase in creatinine with certain model surement). GFR (mL/min/1.73m2) N	rea. nethodologie ASSOC	s,resulting in nor IATED FINDINGS 9 proteinuria		n dehydrat
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther ESTIMATED GLOMERL G1 G2 G3a G3b 	ass (subnormal creatinine producti tetracycline, glucocorticoids) (0:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. furea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon (0:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	VELS: e than creatinine) (e.g. obstruct s out of extracellular fluid). in blood). e) due to tubular secretion of unit ine to creatinine). ase in creatinine with certain measurement). GFR (mL/min/1.73m2) n >90 >90 60 - 89 FR 30-59	rea. nethodologie ASSOC	s,resulting in nor IATED FINDINGS proteinuria nce of Protein ,		n dehydrat
B. Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Inherited hyperam SIADH (syndrome of Nuscular patients INAPPROPIATE RATIO Liabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL G1 G2 G3a	ass (subnormal creatinine producti tetracycline, glucocorticoids) (0:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. (0:1) WITH DECREASED BUN : osis. ad starvation. e. creased urea synthesis. (urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon (0:1) WITH INCREASED CREATININE: py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea <u>JLAR FILTERATION RATE: DESCRIPTION Normal kidney function</u> Kidney damage with normal or high GFR Mild decrease in GFR	VELS: e than creatinine) (e.g. obstruct s out of extracellular fluid). in blood). e) due to tubular secretion of unit ine to creatinine). ase in creatinine with certain measurement). GFR (mL/min/1.73m2) n >90 >90 60 - 89 FR 30-59	rea. nethodologie ASSOC	s,resulting in nor IATED FINDINGS proteinuria nce of Protein ,		n dehydrat





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

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









	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)
NAME	: Mr. ANKUR KESHWANI		
AGE/ GENDER	: 41 YRS/MALE	PATIENT ID	: 351334
COLLECTED BY	:	REG. NO./LAB NO.	: 012502230023
REFERRED BY	:	REGISTRATION DATE	: 23/Feb/2025 09:01 AM
BARCODE NO.	: 01526015	COLLECTION DATE	: 23/Feb/2025 09:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Feb/2025 01:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	JTT	
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

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%

IRON DEFICIENCY ANEMIA

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)		(Pathology)
NAME	: Mr. ANKUR KESHWANI			
AGE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 351334
COLLECTED BY	:		REG. NO./LAB NO.	: 012502230023
REFERRED BY	:		REGISTRATION DATE	: 23/Feb/2025 09:01 AM
BARCODE NO.	:01526015		COLLECTION DATE	: 23/Feb/2025 09:07AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
				
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	47.86 ^L	µg/dL	59.0 - 158.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	262.39	µg/dL	150.0 - 336.0
TOTAL IRON BIND	ING CAPACITY (TIBC)	310.25	μg/dL	230 - 430

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.

15.43

220.28

2. 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):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

% 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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FEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

:SERUM

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

INTERPRETATION:-

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

by CALCULATED, SPECTROPHOTOMETERY (FERENE)





	· · · · · ·	hopra & Microbiology) Insultant Pathologi	۲	am Chopra 1D (Pathology) ant Pathologist
NAME	: Mr. ANKUR KESHWANI			
AGE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 351334
COLLECTED BY	:		REG. NO./LAB NO.	: 012502230023
REFERRED BY	:		REGISTRATION DATE	E : 23/Feb/2025 09:01 AM
BARCODE NO.	: 01526015		COLLECTION DATE	: 23/Feb/2025 09:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/2025 12:46PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANT'	г	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	T	HYROID FUN	CTION TEST: TOTA	L
TRIIODOTHYRONI	NE (T3): SERUM escent microparticle immuno.	1.021	ng/ml	L 0.35 - 1.93
THYROXINE (T4): S		6.42	μgm/d	dL 4.87 - 12.60
THYROID STIMULA	TING HORMONE (TSH): SER	2UM 1.344	µIU/m	nL 0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:		A33A7)		
day has influence on the triiodothyronine (T3).Fai	neasured serum TSH concentrations.	TSH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time of the emetabolically active hormones, thyroxine (T4)and ither underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lo	w Normal	Normal or Low Normal	High

LIMITATION	<u>د</u>

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

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)	THYROX	(INE (T4)	THYROID STIMU	LATING 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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Reduced (at times undetectable)

Reduced

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		Dr. Vinay Ch MD (Pathology & Chairman & Cor			gam Chopra MD (Pathology) Iltant Pathologist	
NAME	: Mr. ANKUF	R KESHWANI				
AGE/ GENDER	: 41 YRS/MA	LE]	PATIENT ID	: 351334	
COLLECTED BY	:]	REG. NO./LAB NO.	: 012502	230023
REFERRED BY	:]	REGISTRATION DAT	FE : 23/Feb/2	:025 09:01 AM
BARCODE NO.	:01526015		(COLLECTION DATE	:23/Feb/2	025 09:07AM
CLIENT CODE.	: KOS DIAGN	OSTIC LAB]	REPORTING DATE	: 23/Feb/2	025 12:46PM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Unit	B	iological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	

1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	NANCY (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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Unit ITAMINS HYDROXY VITAMIN I ng/mL	: 23/Feb/2025 09:07AM : 23/Feb/2025 12:46PM Biological Reference interval
DLSON ROAD, AMBALA CANT Value VI VITAMIN D/25 I (D3): SERUM (D3): SERUM (20) (20) (21 - 29) (30 - 100)	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE TT Unit ITAMINS HYDROXY VITAMIN I ng/mL	: 012502230023 : 23/Feb/2025 09:01 AM : 23/Feb/2025 09:07AM : 23/Feb/2025 12:46PM Biological Reference interval D3 . DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
DLSON ROAD, AMBALA CANT Value VI VITAMIN D/25 I (D3): SERUM (D3): SERUM (20) (20) (21 - 29) (30 - 100)	REGISTRATION DATE COLLECTION DATE REPORTING DATE TT Unit ITAMINS HYDROXY VITAMIN I ng/mL	 : 23/Feb/2025 09:01 AM : 23/Feb/2025 09:07AM : 23/Feb/2025 12:46PM Biological Reference interval D3 DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
DLSON ROAD, AMBALA CANT Value VI VITAMIN D/25 I (D3): SERUM (D3): SERUM (20) (20) (21 - 29) (30 - 100)	COLLECTION DATE REPORTING DATE TT Unit ITAMINS HYDROXY VITAMIN I ng/mL	: 23/Feb/2025 09:07AM : 23/Feb/2025 12:46PM Biological Reference interval D3 . DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
DLSON ROAD, AMBALA CANT Value VI VITAMIN D/25 I (D3): SERUM (D3): SERUM (20) (20) (21 - 29) (30 - 100)	REPORTING DATE TT Unit TTAMINS HYDROXY VITAMIN I ng/mL	: 23/Feb/2025 12:46PM Biological Reference interval D3 DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
DLSON ROAD, AMBALA CANT Value VI VITAMIN D/25 I (D3): SERUM (D3): SERUM (20) (20) (21 - 29) (30 - 100)	TT Unit ITAMINS HYDROXY VITAMIN I ng/mL	Biological Reference interval D3 DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
Value VI VITAMIN D/25 I I D3): SERUM 12.2 ^L SSAY) < 20	Unit ITAMINS HYDROXY VITAMIN I ng/mL	D3 . DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
VI VITAMIN D/25 I (D3): SERUM 12.2 ^L SSAY) 20 21 - 29 30 - 100	ITAMINS HYDROXY VITAMIN I ng/mL	D3 . DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
VITAMIN D/25 I I D3): SERUM 12.2 ^L SSAY) - <20	HYDROXY VITAMIN I ng/mL	. DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
1 D3): SERUM SSAY) 12.2 ^L 20 21 - 29 30 - 100	ng/mL	. DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
SSAY) 20 21 - 29 30 - 100		INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
21 - 29 30 - 100		
21 - 29 30 - 100		
> 100		ng/mL
protein while in circulation. maintenance of calcium hom im deposition, calcium mobili to mineralize newly formed of eliac disease) froxylase activity arathroidism (Mild to Modera c drugs like phenytoin, phenol en only after prolonged expos atemia. cient individuals must be mon	t form of Vitamin D and trar neostatis. It promotes calciu lization, mainly regulated by osteoid in bone, resulting in ate deficiency) obarbital and carbamazepine osure to extremely high dose nitored by periodic assessme	es of Vitamin D. When it occurs, it can result in eent of Vitamin D levels in order to prevent
	drugs like phenytoin, pheno en only after prolonged expo atemia. cient individuals must be mor	arathroidism (Mild to Moderate deficiency) c drugs like phenytoin, phenobarbital and carbamazepin en only after prolonged exposure to extremely high dos atemia. cient individuals must be monitored by periodic assessm pare to whites, is at higher risk of developing Vitamin D de

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)







Dr. Vinay C MD (Pathology Chairman & Co				n Chopra D (Pathology) ht Pathologist	
IAME	: Mr. ANKUR KESHWANI				
GE/ GENDER	: 41 YRS/MALE	PATIE	NT ID	: 351334	
OLLECTED BY	:	REG. N	D./LAB NO.	: 012502230023	
EFERRED BY		REGIST	RATION DATE	: 23/Feb/2025 09:01 AM	
ARCODE NO.	: 01526015		CTION DATE	: 23/Feb/2025 09:07AM	
LIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 23/Feb/2025 12:46PM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A		IING DATE	: 23/ Feb/ 2023 12.40PM	
	. 0340/ 1, MCHOLSON ROAD, A				
Test Name		Value	Unit	Biological Reference interval	
NTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOAS	SAT)			
INCREASED VITAMIN B12		DECREASED VITAMIN B12			
1.Ingestion of Vitan		1.Pregnancy			
2.Ingestion of Estro		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitamin A		3.Ethanol Igestion			
4.Hepatocellular in		4. Contraceptive Harmones 5.Haemodialysis			
5.Myeloproliferative disorder 6.Uremia		6. Multiple Myeloma			
		o. manipic myc	onna		
.Vitamin B12 (coba	amin) is necessary for hematopoi	esis and normal neuron	al function.		
2.In humans, it is ob	amin) is necessary for hematopoi tained only from animal proteins	and requires intrinsic fa	ctor (IF) for absorp		
2.In humans, it is ob 3.The body uses its v	tained only from animal proteins	and requires intrinsic fa	ctor (IF) for absorp	tion. n and returning it to the liver; very little is	
2.In humans, it is ob 3.The body uses its v excreted.	tained only from animal proteins a itamin B12 stores very economica	and requires intrinsic fa Ily, reabsorbing vitamin	ctor (IF) for absorp B12 from the ileun	n and returning it to the liver; very little is	
2.In humans, it is ob 3.The body uses its v excreted. 1.Vitamin B12 deficie	tained only from animal proteins a itamin B12 stores very economica	and requires intrinsic fa Ily, reabsorbing vitamin	ctor (IF) for absorp B12 from the ileun		
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal 5.Vitamin B12 deficie	tained only from animal proteins itamin B12 stores very economica ency may be due to lack of IF secre l intestinal diseases). ency frequently causes macrocytic	and requires intrinsic fa Ily, reabsorbing vitamin etion by gastric mucosa (: anemia, glossitis, perip	ctor (IF) for absorp B12 from the ileun eg, gastrectomy, g heral neuropathy,	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eq weakness, hyperreflexia, ataxia, loss of	
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal 5.Vitamin B12 deficie proprioception, poor	tained only from animal proteins itamin B12 stores very economica ency may be due to lack of IF secre l intestinal diseases). ency frequently causes macrocytic coordination, and affective behavior	and requires intrinsic fa Ily, reabsorbing vitamin etion by gastric mucosa (: anemia, glossitis, perip	ctor (IF) for absorp B12 from the ileun eg, gastrectomy, g heral neuropathy,	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eq weakness, hyperreflexia, ataxia, loss of	
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal 5.Vitamin B12 deficie proprioception, poor the neurologic defec	tained only from animal proteins itamin B12 stores very economica ency may be due to lack of IF secre l intestinal diseases). ency frequently causes macrocytic coordination, and affective behavits without macrocytic anemia.	and requires intrinsic fa Ily, reabsorbing vitamin etion by gastric mucosa (canemia, glossitis, perip vioral changes. These m	ctor (IF) for absorp B12 from the ileun eg, gastrectomy, g heral neuropathy, anifestations may o	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eq weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, smal 5.Vitamin B12 deficie proprioception, poor he neurologic defec 5.Serum methylmalo 7.Follow-up testing f	tained only from animal proteins itamin B12 stores very economica ency may be due to lack of IF secre- l intestinal diseases). ency frequently causes macrocytic coordination, and affective behavious ts without macrocytic anemia. nic acid and homocysteine levels a or antibodies to intrinsic factor (IF	and requires intrinsic fa Ily, reabsorbing vitamin etion by gastric mucosa (c anemia, glossitis, perip vioral changes. These m are also elevated in vita () is recommended to id	ctor (IF) for absorp B12 from the ileun eg, gastrectomy, g heral neuropathy, anifestations may d nin B12 deficiency entify this potentia	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	

NOTE:A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons			
NAME : Mr	. ANKUR KESHWANI			
AGE/ GENDER : 41	YRS/MALE	PATIE	NT ID	: 351334
COLLECTED BY :		REG. N	O./LAB NO.	: 012502230023
REFERRED BY :			FRATION DATE	: 23/Feb/2025 09:01 AM
	526015		CTION DATE	: 23/Feb/2025 09:07AM
	S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, A		ETING DATE	: 23/Feb/2025 09:18AM
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	IOLOGY	
	URINE RO	UTINE & MICROSC	OPIC EXAMINA	ATION
PHYSICAL EXAMINATIO	<u>N</u>			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE	SPECTROPUCTOVETRY	10	ml	
COLOUR		PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE TRANSPARANCY	SPECTROPHOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		>=1.030		1.002 - 1.030
CHEMICAL EXAMINATION	<u>DN</u>			
REACTION by DIP STICK/REFLECTANCE	SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Trace		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE	SPECTROPHOTOMETRY	5.5		5.0 - 7.5
by DIP STICK/REFLECTANCE	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0
		Negative		NEGATIVE (-ve)
		Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXAMINA			/IIDE	0 - 3
RED BLOOD CELLS (RBCs	S)	NEGATIVE (-ve)	/HPF	0 - 3



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

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

NAME	: Mr. ANKUR KESHWANI				
AGE/ GENDER : 41 YRS/MALE			PATIENT ID	: 351334 : 012502230023 : 23/Feb/2025 09:01 AM : 23/Feb/2025 09:07AM	
COLLECTED BY			REG. NO./LAB NO.		
REFERRED BY			REGISTRATION DATE		
BARCODE NO. : 01526015			COLLECTION DATE		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/2025 09:18AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	

EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/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 ***



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