

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1752702
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012502110015
REFERRED BY	:		REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 11:29AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HVA WF	LLNESS PANEL: 1.5	5
			DOD COUNT (CBC)	5
RED BLOOD CELLS	(RBCS) COUNT AND INDICES	LEIEDL		
HAEMOGLOBIN (HI		11.9 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC			u u u u u u u u u u u u u u u u u u u	
RED BLOOD CELL (I	RBC) COUNT	4.09	Millions/	/cmm 3.50 - 5.00
PACKED CELL VOLU	IME (PCV)	35.5 ^L	%	40.0 - 54.0
MEAN CORPUSCULA	JTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	86.7	fL	80.0 - 100.0
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER			
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	29.2	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	33.7	g/dL	32.0 - 36.0
	JTION WIDTH (RDW-CV)	15.1	%	11.00 - 16.00
	JTOMATED HEMATOLOGY ANALYZER JTION WIDTH (RDW-SD)	48.8	fL	35.0 - 56.0
by CALCULATED BY AN MENTZERS INDEX	JTOMATED HEMATOLOGY ANALYZER	91.9	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		21.2	KATIO	13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING IND	EX	32.12	RATIO	>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEI	LS (WBCS)			
TOTAL LEUCOCYTE		5950	/cmm	4000 - 11000
NUCLEATED RED B	by sf cube & microscopy LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	T HEMATOLOGY ANALYZER			
	LOOD CELLS (nRBCS) %	NIL	%	< 10 %

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 Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. R.K SHARMA AGE/ GENDER : 76 YRS/MALE **PATIENT ID** :1752702 **COLLECTED BY** : SURJESH :012502110015 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :11/Feb/2025 10:46 AM : **BARCODE NO.** :01525311 **COLLECTION DATE** :11/Feb/202511:05AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :11/Feb/202511:29AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 65 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 17^L % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 6 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 12 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3868 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1012 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 357 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 714 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 239000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.3by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 12^H MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 104000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 43.6 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.6% 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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







	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam (MD (Pa CEO & Consultant Pa	athology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE	PATI	ENT ID	: 1752702
COLLECTED BY	: SURJESH	REG. 1	NO./LAB NO.	: 012502110015
REFERRED BY		REGIS	STRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	: 01525311			: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB			: 11/Feb/2025 02:20PM
			NIING DATE	. 11/ Feb/ 2023 02.201 M
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY	8.2^H	%	4.0 - 6.4
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY	188.64^H	mg/dL	60.00 - 140.00
		N DIABETES ASSOCIATION	(404):	
	REFERENCE GROUP		(ADA). 'LATED HEMOGLOGIB (HI	BAIC) in %
	abetic Adults >= 18 years		<5.7	
A	t Risk (Prediabetes)		5.7 - 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
		Goals of The		< 7.0
				0.0
Therapeut	ic goals for glycemic control	Actions Sugge		>8.0
Therapeut	ic goals for glycemic control	Actions Sugge Goal of the	Age < 19 Years	>8.0

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

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

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

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

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



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

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







	Dr. Vinay Cl MD (Pathology Chairman & Col			(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1752702
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502110015
REFERRED BY	:		REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 12:02PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see	be used to monitor disease acti ematosus W ESR en with conditions that inhibit th	s inflammation. Fo vity and response le normal sedimer ount (leucocytosi	or this reason, the ESR is ty to therapy in both of the a station of red blood cells, s	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

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)







		hopra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE	PA	TIENT ID	: 1752702
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012502110015
REFERRED BY	:	RE	GISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311	CO	LLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 11/Feb/2025 12:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTR GLUCOSE FA		TRY
GLUCOSE FASTING by GLUCOSE OXIDAS	E (F): PLASMA E - PEROXIDASE (GOD-POD)	157.17 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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.





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





		Chopra gy & Microbiology) Consultant Pathologist		(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE]	PATIENT ID	: 1752702
COLLECTED BY	: SURJESH	1	REG. NO./LAB NO.	: 012502110015
REFERRED BY			REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO			
Test Name		Value	Unit	Biological Reference interval
		I IPID PRO	FILE : BASIC	
רעחו בכידבסחו ידחי				OPTIMAL: < 200.0
CHOLESTEROL TO by CHOLESTEROL OX		127.71	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM phate oxidase (enzymatic)	130.11	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM ion	35.82	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		65.87	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 CHOLES by calculated, spe		91.89	mg/dL	VERY HIGH: > 0R = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > 0R = 220.0
VLDL CHOLESTER		26.02	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	385.53	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	3.57	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0





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

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







	Dr. Vinay Cl MD (Pathology Chairman & Col		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE	PA	ATIENT ID	: 1752702
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012502110015
REFERRED BY	:	RI	EGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311	CC	DLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 11/Feb/2025 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.84	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 ECTROPHOTOMETRY	3.63	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





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







	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consult	crobiology)		(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1752702
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502110015
REFERRED BY	:		REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		FUNCTIO 0.68 0.21	DN TEST (COMPLETE) mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40
by DIAZO MODIFIED, S BILIRUBIN INDIRE	SPECTROPHOTOMETRY ECT (UNCONJUGATED): SERUM	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	ECTROPHOTOMETRY [/RIDOXAL PHOSPHATE	23.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM		27.9	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.84	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	59.56	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	27.35	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.43	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.83	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	I ECTROPHOTOMETRY	2.6	gm/dL	2.30 - 3.50
A : G RATIO: SERU	M ectrophotometry	1.47	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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

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







	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa		(Pathology)
NAME	: Mr. R.K SHARMA		
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1752702
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502110015
REFERRED BY	:	REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	: 01525311	COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Feb/2025 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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)







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1752702
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502110015
REFERRED BY	:		REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT	r	
Test Name		Value	Unit	Biological Reference interv
	KIDNE	EY FUNCTI	ON TEST (COMPLETE)	
UREA: SERUM		19.07	mg/dL	10.00 - 50.00
by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU by ENZYMATIC, SPEC		1.26	mg/dL	0.40 - 1.40
-	OGEN (BUN): SERUM	8.91	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by Calculated, spe	COGEN (BUN)/CREATININE	7.07 ^L	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	15.13	RATIO	
URIC ACID: SERUM		4.47	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	E PEROXIDASE	9.54	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			_	
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.11	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	136.1	mmol/L	135.0 - 150.0
POTASSIUM: SERUI		4.22	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM by ISE (ION SELECTIV	1	102.07	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	59.1		

To differentiate between pre- and post renal azotemia. **INCREASED RATIO (>20:1) WITH NORMAL CREATININE:**

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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

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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist						
IAME	: Mr. R.K SHA	RMA						
AGE/ GENDER	: 76 YRS/MAL	Е		PATIENT ID		: 1752702		
COLLECTED BY	: SURJESH			REG. NO./LAB NO	L.	:0125021100	15	
REFERRED BY				REGISTRATION D		: 11/Feb/2025 1		
BARCODE NO.	:01525311			COLLECTION DAT		: 11/Feb/2025 1		
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DAT	Е	:11/Feb/20251	2:38PM	
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMB	ALA CANTT					
Fest Name			Value	Un	nit	Biolog	ical Refere	nce interva
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 DECREASED RATIO (<1 1. Acute tubular necro	kia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu D:1) WITH ELEV/ (BUN rises disp superimposed c D:1) WITH DECR osis.	creatinine production acocorticoids) ATED CREATININE LEVI roportionately more an renal disease.) LS:				rome, high p	orotein diet,
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 0. Prerenal azotemia 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. 0. Pregnancy. 0. Pregnancy. 0. Phenacimide thera 2. Rhabdomyolysis (ru 8. Muscular patients 1. Diabetic ketoacido 1. Diabetic ketoacido	ction plus See or production (a, high fever). (e.g. ureter color ass (subnormal tetracycline, glu D:1) WITH ELEV/ (BUN rises disp superimposed of D:1) WITH DECR osis. d starvation. Creased urea sy urea rather tha nonemias (urea f inappropiate a D:1) WITH INCR by (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO Nor	ostomy) creatinine production icocorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Athesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu. N RATE: DESCRIPTION mal kidney function) LS: han creatinin ut of extrace blood). due to tubul to creatinin e in creatinin rement).	ne) (e.g. obstructive ellular fluid). ar secretion of urea ne). he with certain met hL/min/1.73m2) >90	e uropath a. thodologic	y). es,resulting in no CIATED FINDINGS lo proteinuria	rmal ratio w	
Excess protein inta purns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of de Nepeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Nuscular patients Muscular patients	ction plus See or production (a, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu D:1) WITH ELEV/ (BUN rises disp superimposed of D:1) WITH DECR osis. d starvation. Creased urea sy urea rather tha nonemias (urea f inappropiate a D:1) WITH INCR by (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes y LAR FILTERATIO Nor Nor	ostomy) creatinine production icocorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Athesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creating creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with) LS: han creatinin ut of extrace blood). due to tubul to creatinin e in creatinin rement).	ne) (e.g. obstructive ellular fluid). ar secretion of urea ne). he with certain met	e uropath a. thodologic ASSO Pres	y). es,resulting in no CIATED FINDINGS lo proteinuria ence of Protein ,	rmal ratio w	
Excess protein inta purns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an info Cephalosporin ther <u>STIMATED GLOMERU</u> <u>G1</u> <u>G2</u>	ction plus se or production kia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu D:1) WITH ELEV/ (BUN rises disp superimposed co D:1) WITH DECR osis. d starvation. creased urea sy urea rather tha nonemias (urea f inappropiate a D:1) WITH INCR by (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes y LAR FILTERATIO Non Ki Non Ki	ostomy) creatinine production icocorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Athesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creating creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR) LS: han creatinin ut of extrace blood). due to tubul to creatinin e in creatinin rement).	ne) (e.g. obstructive ellular fluid). ar secretion of urea ne). he with certain met <u>hL/min/1.73m2) >90 >90</u>	e uropath a. thodologic ASSO Pres	y). es,resulting in no CIATED FINDINGS lo proteinuria	rmal ratio w	
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 0. Prerenal azotemia 0. ECREASED RATIO (<1 9. Acute tubular necro 9. Low protein diet ar 9. Severe liver disease 1. Other causes of de 1. Acute tubular necro 9. Severe liver disease 1. Other causes of de 1. Repeated dialysis (1. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. 0. ECREASED RATIO (<1 1. Phenacimide thera 1. Phenacimide thera 1. Phenacimide thera 1. Diabetic ketoacido 1. hould produce an info 1. Cephalosporin ther 1. STIMATED GLOMERU 1. CEN STAGE 1. G2 1. G3a	ction plus se or production (a, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu D:1) WITH ELEV/ (BUN rises disp superimposed co D:1) WITH DECR osis. d starvation. creased urea sy urea rather tha nonemias (urea f inappropiate a D:1) WITH INCR by (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes y LAR FILTERATIO Nor Ki Nor Ki Nor Ki Nor	ostomy) creatinine production icocorticoids) ATED CREATININE LEV roportionately more in renal disease. EASED BUN : Athesis. In creatinine diffuses of a is virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creating creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu. N RATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR_ Id decrease in GFR) LS: han creatinin ut of extract blood). due to tubul to creatinin e in creatinin rement). GFR (m	ne) (e.g. obstructive ellular fluid). ar secretion of urea ne). he with certain met <u>hL/min/1.73m2) >90 >90 60 -89</u>	e uropath a. thodologic ASSO Pres	y). es,resulting in no CIATED FINDINGS lo proteinuria ence of Protein ,	rmal ratio w	
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 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 3. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an info 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1 G2	ction plus se or production (a, high fever). (e.g. ureter cold ass (subnormal tetracycline, glu D:1) WITH ELEV/ (BUN rises disp superimposed co D:1) WITH DECR osis. d starvation. creased urea sy urea rather tha nonemias (urea f inappropiate a D:1) WITH INCR oy (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes y LAR FILTERATIO Nor Kin Nor Kin Mod	ostomy) creatinine production icocorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Athesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creating creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR) LS: han creatinin ut of extract blood). due to tubul to creatinin e in creatinin rement). GFR (m	ne) (e.g. obstructive ellular fluid). ar secretion of urea ne). he with certain met <u>hL/min/1.73m2) >90 >90</u>	e uropath a. thodologic ASSO Pres	y). es,resulting in no CIATED FINDINGS lo proteinuria ence of Protein ,	rmal ratio w	





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

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







	Dr. Vinay Chopra MD (Pathology & Microbiole Chairman & Consultant Path		(Pathology)
NAME	: Mr. R.K SHARMA		
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1752702
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502110015
REFERRED BY	:	REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	: 01525311	COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Feb/2025 12:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Vah	le Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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

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







	MD (Patho	y Chopra ology & Microbiology) & Consultant Pathologist	licrobiology) MD (Pathology)	
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE	I	PATIENT ID	: 1752702
COLLECTED BY	: SURJESH]	REG. NO./LAB NO.	: 012502110015
REFERRED BY	:]	REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311	(COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 11/Feb/2025 12:46PM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON I	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	39.41 ^L	μg/dL	59.0 - 158.0
	ON BINDING CAPACITY	(UIBC) 272.89	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPEC	TROPHOTOMETERY			
	ING CAPACITY (TIBC)	312.3	μg/dL	230 - 430
:SERUM				
by SPECTROPHOTOM	ATURATION: SERUM	12.62 ^L	%	15.0 - 50.0
by CALCULATED, SPE	CTROPHOTOMETERY (FEREI	VE)		
TRANSFERRIN: SE		221.73	mg/dL	200.0 - 350.0
INTERPRETATION:-				
VARIAB	LES ANEMIA	OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	A THALASSEMIA α/β TRAIT

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

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

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

% TRANSFERRIN SATURATION:

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



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

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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. R.K SHARMA					
AGE/ GENDER	: 76 YRS/MALE	PATI	ENT ID	: 1752702		
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012502110015		
REFERRED BY	:	REGI	STRATION DATE	: 11/Feb/2025 10:46 AM		
BARCODE NO.	: 01525311	COLL	ECTION DATE	: 11/Feb/2025 11:05AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 11/Feb/2025 12:18PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT				
Test Name		Value	Unit	Biological Reference inte	erval	
		ENDOCRING YROID FUNCTION				
TRIIODOTHYRONIN		0.96	ng/mL	0.35 - 1.93		
, ,	ESCENT MICROPARTICLE IMMUNOAS	,	0			
	ERUM	6.03	µgm/dL	4.87 - 12.60		
	ESCENT MICROPARTICLE IMMUNOAS	SAY)				
by CMIA (CHEMILUMIN THYROID STIMULA	ESCENT MICROPARTICLE IMMUNOAS TING HORMONE (TSH): SERU ESCENT MICROPARTICLE IMMUNOAS	JM 1.55	µIU/mL	0.35 - 5.50		
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULTI	TING HORMONE (TSH): SERU	JM 1.55	µIU/mL	0.35 - 5.50		
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULTI INTERPRETATION: TSH levels are subject to c day has influence on the r triiodothyronine (T3).Fail	TING HORMONE (TSH): SERU ESCENT MICROPARTICLE IMMUNOAS AASENSITIVE ircadian variation, reaching peak levels neasured serum TSH concentrations. TS ure at any level of regulation of the hy	IM 1.55 SSAY) between 2-4 a.m and at a m H stimulates the productior	<i>inimum between 6-10 p</i> and secretion of the m	0.35 - 5.50 m. The variation is of the order of 50%. Hence tim etabolically active hormones, thyroxine (T4)and r underproduction (hypothyroidism) or		
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULTI INTERPRETATION: TSH levels are subject to c day has influence on the r	TING HORMONE (TSH): SERU ESCENT MICROPARTICLE IMMUNOAS RASENSITIVE ircadian variation, reaching peak levels neasured serum TSH concentrations. TS ure at any level of regulation of the hy roidism) of T4 and/or T3.	IM 1.55 SSAY) between 2-4 a.m and at a m H stimulates the production pothalamic-pituitary-thyroi	ninimum between 6-10 p n and secretion of the m d axis will result in eithe	n. The variation is of the order of 50%.Hence tim etabolically active hormones, thyroxine (T4)and		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

Subclinical Hyperthyre	oidism:

Primary Hyperthyroidism:

LIMITATIONS:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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 STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	

Increased

Normal or High Normal





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

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



Reduced (at times undetectable)

Reduced





	Dr. Vinay Chopra MD (Pathology & Microbiol Chairman & Consultant Pat	G, /	(Pathology)
NAME	: Mr. R.K SHARMA		
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1752702
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502110015
REFERRED BY	:	REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	: 01525311	COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Feb/2025 12:18PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA (CANTT	
Test Name	Vah	ue Unit	Biological Reference interval

Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LI	VELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra gy & Microbiology) Consultant Pathologis	M	n Chopra D (Pathology) ht Pathologist
JAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1752702
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502110015
REFERRED BY	:		REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 01:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTI	2	
Test Name		Value	Unit	Biological Reference interval
		vr	AMINS	
	V		YDROXY VITAMIN I	03
by CLIA (CHEMILUMIN	DROXY VITAMIN D3): SER iescence immunoassay)	RUM 87.719	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DFFI	CIENT:	< 20		ng/mL
	FICIENT:	21 - 29		ng/mL
	ED RANGE:	30 - 100 > 100		ng/mL ng/mL
2.25-OHVitamin D r tissue and tightly bo 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency r DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake,	und by a transport protein w primary role in the maintena tion, skeletal calcium deposit may lead to failure to minera	evoir and transport f hile in circulation. nce of calcium home tion, calcium mobiliz lize newly formed os se)	form of Vitamin D and tran ostatis. It promotes calciu ation, mainly regulated by	sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults.



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

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

 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
 www.koshealthcare.com



Page 16 of 19





		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE	PA	TIENT ID	: 1752702
COLLECTED BY	: SURJESH	RF	G. NO./LAB NO.	: 012502110015
REFERRED BY			GISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		LLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 11/Feb/2025 12:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	BALAMIN: SERUM	636	COBALAMIN pg/mL	190.0 - 890.0
		636		190.0 - 890.0
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	IESCENT MICROPARTICLE IMMUNO	636 ASSAY)	pg/mL DECREASED VITAMIN	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREA: 1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C	ASSAY) 636	pg/mL DECREASED VITAMIN	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen	636 ASSAY) 1.Pregnancy 2.DRUGS:As	pg/mL DECREASED VITAMIN / pirin, Anti-convulsants	NB12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A	636 ASSAY) 1.Pregnancy 2.DRUGS:As 3.Ethanol Ig	pg/mL DECREASED VITAMIN pirin, Anti-convulsants estion	NB12
by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A jury	636 ASSAY) 1.Pregnancy 2.DRUGS:As 3.Ethanol Ig 4. Contracep	pg/mL DECREASED VITAMIN pirin, Anti-convulsants estion potive Harmones	NB12
by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A jury	636 ASSAY) 1.Pregnancy 2.DRUGS:As 3.Ethanol Ig 4. Contracep 5.Haemodia 6. Multiple I	pg/mL	NB12





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE	PATI	ENT ID	: 1752702
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012502110015
REFERRED BY	:	REGI	STRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311	COLL	ECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 11/Feb/2025 01:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	HOLOGY	
	URINE ROU	TINE & MICROS	COPIC EXAMIN	ATION
PHYSICAL EXAMI				
QUANTITY RECIEV		10	ml	
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
COLOUR by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	<=1.005		1.002 - 1.030
	CTANCE SPECTROPHOTOMETRY	<=1.005		1.002 - 1.030
<u>CHEMICAL EXAM</u>	INATION			
REACTION		ACIDIC		
PROTEIN	CTANCE SPECTROPHOTOMETRY	Trace		NEGATIVE (-ve)
-	CTANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLEG	CTANCE SPECTROPHOTOMETRY	2+		NEGATIVE (-ve)
рН		6.5		5.0 - 7.5
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	0		
NITRITE	CTANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	J. J		
BLOOD	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-ve	e)	NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY			
MICROSCOPIC EX			/1100	
RED BLOOD CELLS	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve	e) /HPF	0 - 3

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, HaryanaKOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.com



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

NAME	: Mr. R.K SHARMA			
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1752702
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502110015
REFERRED BY	:		REGISTRATION DATE	: 11/Feb/2025 10:46 AM
BARCODE NO.	:01525311		COLLECTION DATE	: 11/Feb/2025 11:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Feb/2025 01:38PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5
EPITHELIAL CELLS 1-2 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-2	/HPF	ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CRYSTALS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
BACTERIA	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT	ABSENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***



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

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

