

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
IAME	: Mr. RAKESH KUMAR				
GE/ GENDER	: 64 YRS/MALE		PATIENT ID	: 1667925	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:01241111	0039
REFERRED BY	:		REGISTRATION DATE	:11/Nov/202	24 10:45 AM
BARCODE NO.	: 01520567		COLLECTION DATE	:11/Nov/202	
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Nov/202	24 11:10AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Fest Name		Value	Unit	Bio	logical Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.	5	
	COMP	LETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H	B)	12.2	gm/dL	12.	0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	4.45	Millions	/cmm 3.5	0 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE				
PACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	39.1 ^L	%	40.	0 - 54.0
MEAN CORPUSCUL	AR VOLUME (MCV)	87.9	fL	80.	0 - 100.0
	utomated hematology analyzer AR HAEMOGLOBIN (MCH)	27.5	pg	27.	0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER	a se a l		22	0 20 0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.2 ^L	g/dL	32.	0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.8	%	11.	00 - 16.00
-	UTION WIDTH (RDW-SD)	45.2	fL	35.	0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER	10 75	DATIO	DE	
MENTZERS INDEX		19.75	RATIO	BE. 13.	ΓΑ THALASSEMIA TRAIT: < 0
				IRC	N DEFICIENCY ANEMIA:
GREEN & KING IND)FV	27.34	RATIO	>13 PF	3.0 ΓΑ THALASSEMIA TRAIT:<;
JREEN & KING INL	JEA	21.34	KATIU	BE. 65.	
				IRC	N DEFICIENCY ANEMIA: >
WHITE BLOOD CE	US (WRCS)			65.	U
TOTAL LEUCOCYTE		5840	/cmm	400	00 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY				
	LOOD CELLS (nRBCS)	NIL		0.0	0 - 20.00
		NIL	%	< 1	0 %
NUCLEATED RED B	LUUD CELLS (IIKBCS) %	INIL	/0	< 1	0 /0

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. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAKESH KUMAR AGE/ GENDER : 64 YRS/MALE **PATIENT ID** :1667925 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411110039 **REFERRED BY REGISTRATION DATE** : 11/Nov/2024 10:45 AM : **BARCODE NO.** :01520567 **COLLECTION DATE** :11/Nov/2024 10:57AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :11/Nov/2024 11:10AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 53 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 36 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 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 3095 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2102 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 175 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 467 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 347000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.39^H PLATELETCRIT (PCT) % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 11 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 123000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 35.3 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.7% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra

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Test Name	Val	ue Unit	Biological Reference interval





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







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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 11/Nov/2024 02:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
				n
WHOLE BLOOD by HPLC (HIGH PERFO	EMOGLOBIN (HbA1c):	DSYLATED HAEMO 6.1 128 37	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	EMOGLOBIN (HbA1c):			
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN	6.1 128.37 DIABETES ASSOCIATION	% mg/dL (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	6.1 128.37 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.1 128.37 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.1 128.37 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.1 128.37 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.1 128.37 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: Non dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.1 128.37 DIABETES ASSOCIATION GLYCOSY GOals of The	% mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: Non dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.1 128.37 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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 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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IENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
by RED CELL AGGREG NTERPRETATION: . ESR is a non-specifi nmune disease, but . An ESR can be affec s C-reactive protein	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET Ic test because an elevated resu does not tell the health practiti- cted by other conditions beside	ult often indicates the p oner exactly where the s inflammation. For this	mm/1st resence of inflammat inflammation is in the reason, the ESR is ty	hr 0 - 20





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



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CLIENT ADDRESS	: 6349/1, NICHOLSC	ON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING	G (F): PLASMA SE - PEROXIDASE (GOD-PO	119.43 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAL), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TOT	AI · SFRUM	200.32 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXI		200.32**	ing/ uL	BORDERLINE HIGH: 200.0 -
				HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SE		103.12	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPH	IATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
		/		VERY HIGH: > OR = 500.0
HDL CHOLESTEROL by SELECTIVE INHIBITIC		51.8	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
	CEDUM	1070	. / 11	HIGH HDL: $> OR = 60.0$
.DL CHOLESTEROL: by CALCULATED, SPEC		127.9	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLEST		148.52 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPEC	TROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTERO	L: SERUM	20.62	mg/dL	0.00 - 45.00
by CALCULATED, SPEC	CTROPHOTOMETRY			
OTAL LIPIDS: SERU		503.76	mg/dL	350.00 - 700.00
CHOLESTEROL/HDI		3.87	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPEC	TROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
ET CASA A LA COMPANY		0		

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yhoira







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.47	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	1.99 ^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 interval
	IIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL		0.58	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIREC	Г (CONJUGATED): SERUM spectrophotometry	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.46	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT P	I YRIDOXAL PHOSPHATE	11.2	U/L	7.00 - 45.00
SGPT/ALT: SERUN by IFCC, WITHOUT P	[/RIDOXAL PHOSPHATE	13.5	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM ECTROPHOTOMETRY	0.83	RATIO	0.00 - 46.00
ALKALINE PHOSP by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	115.21	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	27.16	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.87	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.09	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.78	gm/dL	2.30 - 3.50
A : G RATIO: SERU	M	1.47	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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)





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



INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa	G, /	(Pathology)
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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)







0 9001 : 2008 CERT			EXCELLENCE IN NEXLINCARE	
	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAKESH KUMAR			
AGE/ GENDER	: 64 YRS/MALE]	PATIENT ID	: 1667925
COLLECTED BY	: SURJESH]	REG. NO./LAB NO.	: 012411110039
REFERRED BY	:]	REGISTRATION DATE	: 11/Nov/2024 10:45 AM
BARCODE NO.	: 01520567		COLLECTION DATE	: 11/Nov/2024 10:57AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 11/Nov/2024 12:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	KIDN	EY FUNCTION	N TEST (COMPLETE)	
UREA: SERUM		38.35	mg/dL	10.00 - 50.00
by UREASE - GLUTAN CREATININE: SER	/ATE DEHYDROGENASE (GLDH)	0.91	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC		0.91	iiig/ uL	0.40 - 1.40
	ROGEN (BUN): SERUM	17.92	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	19.69	RATIO	10.0 - 20.0
RATIO: SERUM	FOTRODUOTOMETRY			
UREA/CREATININ	ECTROPHOTOMETRY E RATIO: SERUM	42.14	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY	0.01		0.00 7.70
URIC ACID: SERUN by URICASE - OXIDAS		3.81	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.99	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SE		3.67	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL	DATE, SPECTROPHOTOMETRY	0.01	ing, ui	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	145.3	mmol/L	135.0 - 150.0
POTASSIUM: SERU	М	4.23	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	-	108.98	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)		IIIII01/ L	30.0 - 110.0
	MERULAR FILTERATION RATE			
(eGFR): SERUM	IERULAR FILTERATION RATE	94.1		
by CALCULATED INTERPRETATION:				
	veen pre- and post renal azotemia.			

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

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

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

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





		Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	robiology)		Yugam Cl MD (Pat Insultant Path	nology)			
NAME	: Mr. RAKESH	KUMAR							
AGE/ GENDER	: 64 YRS/MAL	E		PATIENT ID	:	1667925			
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REFERRED BY				REGISTRATION D		11/Nov/2024		м	
BARCODE NO.	: 01520567			COLLECTION DAT		11/Nov/2024			
				REPORTING DAT		11/Nov/2024			
CLIENT CODE.	: KOS DIAGNO			KEPUKIING DAI	с :	11/NOV/2024	£ 12:35P	IVI	
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMI	SALA CANTT						
Fest Name			Value	Un	it	Biolo	ogical Ro	eference	interva
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar	ass (subnormal tetracycline, glu 0:1) WITH ELEVA I (BUN rises disp superimposed c I 0:1) WITH DECR osis. Ind starvation.	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease.	ELS:	ne) (e.g. obstructive	e uropathy)				
 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 diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin their ESTIMATED GLOMERI G1 	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c (0:1) WITH DECR osis. ad starvation. e. creased urea sylurea rather that monemias (urea of inappropiate a sis (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cr apy (interferes v ULAR FILTERATIO	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : The thesis. In creatinine diffuses is virtually absent in ntidiuretic harmone EASED CREATININE: conversion of creating treatinine). hal failure. The causes false increated extension for creating treatinine ratio). vith creatinine meased NATE: DESCRIPTION mal kidney function	TELS: than creatinin out of extrace h blood). due to tubul te to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90	n. hodologies <u>ASSOCI</u> No	resulting in r ATED FINDING proteinuria	GS	atio when	dehydra
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 diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CEphalosporin ther STADE GLOMERL CKD STAGE	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c (0:1) WITH DECR osis. ad starvation. e. creased urea sylurea rather that monemias (urea of inappropiate a finappropiate a sis (accelerates of eleases muscle of who develop re sis (acetoacetat creased BUN/cro apy (interferes of plar FILTERATIO	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : The thesis. In creatinine diffuses is virtually absent in ntidiuretic harmone EASED CREATININE: conversion of creatin creatinine). hal failure. The causes false increated extension of creating creatinine ratio). with creatinine meased NATE: DESCRIPTION mal kidney function dney damage with	TELS: than creatinin out of extrace h blood). due to tubul te to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met	hodologies	resulting in r ATED FINDING proteinuria ice of Protein	GS	atio when	dehydra
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (NiADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERI CKD STAGE G1 G2	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c (0:1) WITH DECR osis. ad starvation. e. creased urea sylurea rather that monemias (urea of inappropiate a sis (acelerates of eleases muscle of who develop re : sis (acetoacetat creased BUN/cro apy (interferes of DLAR FILTERATIO	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : The thesis. In creatinine diffuses is virtually absent in ntidiuretic harmone EASED CREATININE: conversion of creating treatinine). hal failure. The causes false increated extension for creating treatinine ratio). vith creatinine meased NATE: DESCRIPTION mal kidney function	TELS: than creatinin out of extrace h blood). due to tubul te to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90 >90	hodologies	resulting in r ATED FINDING proteinuria	GS	atio when	dehydra
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (Nenerited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Negnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin their ESTIMATED GLOMERI CKD STAGE G1	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c (0:1) WITH DECR osis. ad starvation. e. creased urea syl urea rather that monemias (urea of inappropiate a finappropiate a finappropiate a finappropiate a sis (acetoacetat creased BUN/cr apy (interferes v LAR FILTERATIO	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : Assed BUN : ntidiuretic harmone CASED CREATININE: conversion of creatin treatinine). hal failure. e causes false increated conversion of creating treatinine ratio). with creatinine meased NATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR	TELS: than creatinin out of extrace h blood). due to tubula te to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90	hodologies	resulting in r ATED FINDING proteinuria ice of Protein	GS	atio when	dehydra
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c (0:1) WITH DECR osis. ad starvation. e. creased urea sylurea rather that monemias (urea of inappropiate a finappropiate a finappropiate a finappropiate a finappropiate a sis (acetoacetat creased BUN/cr apy (interferes v LAR FILTERATIO Nor King Nor King Nor	creatinine productio cocorticoids) TED CREATININE LEV roportionately more n renal disease. EASED BUN : Assed BUN : not creatinine diffuses is virtually absent in ntidiuretic harmone EASED CREATININE: conversion of creatin creatinine). hal failure. e causes false increated e causes false increated e causes false increated treatinine ratio). vith creatinine meas NATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR Id decrease in GFR	TELS: than creatinin out of extrace h blood). due to tubula te to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90 >90	hodologies	resulting in r ATED FINDING proteinuria ice of Protein	GS	atio when	dehydra





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







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2010/1 NICHOLCON DOAD AN		
: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Nov/2024 12:35PM
: 01520567	COLLECTION DATE	: 11/Nov/2024 10:57AM
:	REGISTRATION DATE	: 11/Nov/2024 10:45 AM
: SURJESH	REG. NO./LAB NO.	:012411110039
: 64 YRS/MALE	PATIENT ID	: 1667925
: Mr. RAKESH KUMAR		
		0 (Pathology) It Pathologist
		n Chopra
	MD (Pathology & M Chairman & Consul : Mr. RAKESH KUMAR : 64 YRS/MALE : SURJESH : : 01520567	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : 64 YRS/MALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01520567 COLLECTION DATE

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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	1	Dr. Vinay Chop 1D (Pathology & Mic Chairman & Consult	crobiology)		(Pathology)
NAME	: Mr. RAKESH	KUMAR			
AGE/ GENDER	: 64 YRS/MALI	Ξ		PATIENT ID	: 1667925
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 012411110039
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CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AM	BALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	ROPHOTOMETRY		50.71 ^L	μg/dL	59.0 - 158.0
UNSATURATED IRC			248.59	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPECT	ROPHOTOMETER	ΥY			
TOTAL IRON BINDI	NG CAPACITY	(TIBC)	299.3	μg/dL	230 - 430
:SERUM by SPECTROPHOTOM	ETERY				
%TRANSFERRIN SA by CALCULATED, SPEC	TURATION: S		16.94	%	15.0 - 50.0
TRANSFERRIN: SEF			212.5	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIABI SERUM IR		ANEMIA OF CHRO Normal to Re		IRON DEFICIENCY ANEMI/ Reduced	A THALASSEMIA α/β TRAIT Normal

Norma TOTAL IRON BINDING CAPACITY: Normal Decreased Increased % TRANSFERRIN SATURATION: Decreased Decreased < 12-15 % Normal **SERUM FERRITIN:** Normal to Increased Decreased Normal or Increased

IRON:

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

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

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.



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	MD (Patho	y Chopra ology & Microbiology) & Consultant Patholog	M	I m Chopra D (Pathology) Int Pathologist	
NAME	: Mr. RAKESH KUMAR				
AGE/ GENDER	: 64 YRS/MALE		PATIENT ID	: 1667925	
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Test Name		Value	Unit	Biological Refere	ence interval
		ENDO	CRINOLOGY		
		THYROID FUN	ICTION TEST: TOTAL	L	
TRIIODOTHYRONI	NE (T3): SERUM	0.748	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle imm	4.96 MUNOASSAY)	μgm/d	L 4.87 - 12.60	
	TING HORMONE (TSH)		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	IESCENT MICROPARTICLE IMN RASENSITIVE	1011043341)			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentration	tions. TSH stimulates the	production and secretion of the	<i>ppm. The variation is of the order of 50</i> metabolically active hormones, thyro ther underproduction (hypothyroidism	(ine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis		buced	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	aism: Norma	or Low Normal	Normal or Low Normal	High	

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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

Increased

Normal or High Normal

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

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

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

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	

Increased

Normal or High Normal





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



Page 15 of 20

Reduced (at times undetectable)

Reduced





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Pathology)
NAME	: Mr. RAKESH KUMAR		
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Test Name	Value	Unit	Biological Reference interval

		Value	Unit		Biological Reference interval
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECON	MMENDATIONS OF TSH LE	VELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECON 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LE1st Trimester2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PRE 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.60 - 5.50 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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.



	MD	Vinay Chop (Pathology & M irman & Consult	icrobiology)		(Pathology)
AME	: Mr. RAKESH K	U MAR			
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Test Name			Value	Unit	Biological Reference interval
		VITAM		'AMINS YDROXY VITAMIN D	3
VITAMIN D (25-HY by CLIA (CHEMILUMIN			15.4 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DEFI	CIENT:		< 20	n	g/mL
	FICIENT:		21 - 29		g/mL
	ED RANGE:		30 - 100 > 100		g/mL
INTOXI 1.Vitamin D compount conversion of 7- diby	nds are derived from	n dietary ergoca o Vitamin D3 in	lciferol (from	Ultraviolet exposure.	lecalciferol (from animals, Vitamin D3), or by

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)

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		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
IAME	: Mr. RAKESH KUMAR			
GE/ GENDER	: 64 YRS/MALE	Р	ATIENT ID	: 1667925
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012411110039
REFERRED BY	:	R	EGISTRATION DATE	: 11/Nov/2024 10:45 AM
BARCODE NO.	: 01520567	С	OLLECTION DATE	: 11/Nov/2024 10:57AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 11/Nov/2024 12:40PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA			
	. 0010/1, 100101501/1001			
Fest Name		Value	Unit	Biological Reference interval
		VITAMIN B12	COBALAMIN	
•	BALAMIN: SERUM	264	2/COBALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUMIN NTERPRETATION:-		264		
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREA: 1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C	264	pg/mL DECREASED VITAMII	N B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen	264 OASSAY) 1.Pregnan 2.DRUGS:/	pg/mL DECREASED VITAMII cy Aspirin, Anti-convulsants	N B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 hin C gen hin A	264 OASSAY) 1.Pregnan 2.DRUGS:/ 3.Ethanol	pg/mL DECREASED VITAMII cy Aspirin, Anti-convulsants Igestion	N B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen nin A jury	264 OASSAY) 1.Pregnan 2.DRUGS:/ 3.Ethanol 4. Contrac	pg/mL DECREASED VITAMII cy	N B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen nin A jury	264 OASSAY) 1.Pregnan 2.DRUGS:/ 3.Ethanol 4. Contrac 5.Haemoc 6. Multiple	pg/mL DECREASED VITAMII cy Aspirin, Anti-convulsants Igestion eptive Harmones dialysis e Myeloma	N B12





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P		Dr. Yugam MD O & Consultant	(Pathology)
NAME: Mr. RAKEAGE/ GENDER: 64 YRS/MACOLLECTED BY: SURJESHREFERRED BY:BARCODE NO.: 01520567CLIENT CODE.: KOS DIAGNCLIENT ADDRESS: 6349/1, NU	ALE	COLLECTI REPORTI	LAB NO. ATION DATE ION DATE	: 1667925 : 012411110039 : 11/Nov/2024 10:45 AM : 11/Nov/2024 10:57AM : 11/Nov/2024 12:32PM
Test Name	Va	alue	Unit	Biological Reference interval
	CLIN	NICAL PATHO	LOGY	
	URINE ROUTINE	E & MICROSCOP	PIC EXAMINA	ATION
PHYSICAL EXAMINATION				
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTR	1 COPHOTOMETRY	0	ml	
COLOUR	P	ALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTR TRANSPARANCY	C	LEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTR SPECIFIC GRAVITY		=1.030		1.002 - 1.030
by DIP STICK/REFLECTANCE SPECTR CHEMICAL EXAMINATION				
REACTION	А	CIDIC		
by DIP STICK/REFLECTANCE SPECTR PROTEIN		egative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR SUGAR	OPHOTOMETRY			
by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY	egative		NEGATIVE (-ve)
pH by DIP STICK/REFLECTANCE SPECTR		=5.0		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTR		egative		NEGATIVE (-ve)
NITRITE	Ν	egative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR UROBILINOGEN	Ν	ormal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECTR KETONE BODIES		egative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR BLOOD	OPHOTOMETRY	egative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR	ROPHOTOMETRY	-		
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTR		EGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXAMINATION				
RED BLOOD CELLS (RBCs)	Ν	EGATIVE (-ve)	/HPF	0 - 3





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. RAKESH KUMAR		
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Test Name	Value	Unit	Biological Reference interval

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
PUS CELLS	2-3	/HPF	0 - 5	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
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 ***





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