



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. RAJU BALI			
AGE/ GENDER	: 48 YRS/MALE		PATIENT ID	: 1790034
COLLECTED BY	:		REG. NO./LAB NO.	: 012503130003
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 13/Mar/2025 07:56 AM
BARCODE NO.	: 01527028		COLLECTION DATE	: 13/Mar/2025 07:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Mar/2025 09:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
			LLNESS PANEL: 1.5	
		'LETE BL	OOD COUNT (CBC)	
	S (RBCS) COUNT AND INDICES	14.0	( 17	10.0 17.0
HAEMOGLOBIN (H	В)	14.9	gm/dL	12.0 - 17.0
RED BLOOD CELL (	RBC) COUNT	5.35 <sup>H</sup>	Millions/	<sup>7</sup> cmm 3.50 - 5.00
PACKED CELL VOLU		45.9	%	40.0 - 54.0
by CALCULATED BY A MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER	85.7	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		IL	
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.8	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.4	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	14.4	%	11.00 - 16.00
•	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	46.3	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		DATIO	
MENTZERS INDEX by CALCULATED		16.02	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INI	DEX	23.03	RATIO	>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED		20.00		65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			0010
TOTAL LEUCOCYTE		8690	/cmm	4000 - 11000
,	y by sf cube & microscopy BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PAF	RT HEMATOLOGY ANALYZER		0/	
	BLOOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %





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Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJU BALI **AGE/ GENDER** : 48 YRS/MALE **PATIENT ID** :1790034 **COLLECTED BY** :012503130003 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 13/Mar/2025 07:56 AM **BARCODE NO.** :01527028 **COLLECTION DATE** :13/Mar/202507:59AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :13/Mar/2025 09:51AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 72<sup>H</sup> % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 18<sup>L</sup> % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 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 6257 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1564 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 174/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 695 /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 141000<sup>L</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.22 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 16<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 91000<sup>H</sup> 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 64.6<sup>H</sup> 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.7% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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Test Name	Value	Unit	Biological Reference interval





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Test Name		Value	Unit	Biological Reference interval	
WHOLE BLOOD	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	7.7 <sup>H</sup>	%	4.0 - 6.4	
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	174.29 <sup>H</sup>	mg/dL	60.00 - 140.00	
	AS PER AMERICAN	DIABETES ASSOCIATION	(404).		
	REFERENCE GROUP		LATED HEMOGLOGIB (HI	BAIC) in %	
Non dia	abetic Adults >= 18 years	/	<5.7		
A	t Risk (Prediabetes)	5.7 - 6.4			
D	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
	in and a few shares and a sector of	Goals of The		< 7.0	
Therapeutic goals for glycemic control		Actions Suggested:		>8.0	
Therapeut					
Therapeut		Goal of ther	Age < 19 Years	<7.5	

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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LIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 13/Mar/2025 10:05AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
lest Name		Value	Unit	Biological Reference interval
ERYTHROCYTE SEI by RED CELL AGGREG NTERPRETATION: 1. ESR is a non-specif mmune disease, but 2. An ESR can be affe as C-reactive protein	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOM ic test because an elevated re does not tell the health pract cted by other conditions besid	2 Sult often indicates the itioner exactly where the des inflammation. For t	he inflammation is in the his reason, the ESR is ty	ESR) hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such
ERYTHROCYTE SEI by RED CELL AGGREC NTERPRETATION: 1. ESR is a non-specif mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erytho CONDITION WITH LON A low ESR can be see polycythaemia), sigr	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOM ic test because an elevated re does not tell the health pract cted by other conditions besic be used to monitor disease ac ematosus W ESR n with conditions that inhibit	2 sult often indicates the itioner exactly where the des inflammation. For t stivity and response to the normal sedimentat	mm/1st e presence of inflammat he inflammation is in the his reason, the ESR is ty therapy in both of the a tion of red blood cells, s	ESR) hr 0 - 20 ion associated with infection, cancer and auto-











		y <b>Chopra</b> ogy & Microbiology) . Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 13/Mar/2025 05:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RC	DAD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLI	NICAL CHEMISTR	Y/BIOCHEMIST	RY
		GLUCOSE FA	STING (F)	
	G (F): PLASMA	159.75 <sup>H</sup>	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. 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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BARCODE NO.	: 01527028	CO	LLECTION DATE	: 13/Mar/2025 01:01PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 13/Mar/2025 05:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interva</b>
	G	LUCOSE POST P	RANDIAL (PP)	
	ANDIAL (PP): PLASMA E - PEROXIDASE (GOD-POD)	140.45 <sup>H</sup>	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0

INTERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A post-prandial plasma glucose level below 140 mg/dl is considered normal. 2. A post-prandial glucose level between 140 - 200 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 post-prandial plasma glucose level of above 200 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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	F · BASIC	
CHOLESTEROL TO	PAL CEDUM	125.75		OPTIMAL: < 200.0
by CHOLESTEROL O		123.73	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM phate oxidase (enzymatic)	163.18 <sup>H</sup>	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	60.5	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI	SFRIM	32.61	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE			ing, all	ABOVE OPTIMAL: 100.0 - 129 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPE		65.25	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(		32.64	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	414.68	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	2.08	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		0.54	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL RATIO: SERUM	2.7 <sup>L</sup>	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.

3. 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. 4. 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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MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.77	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.56	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.1	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.84	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	62.19	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	20.89	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.12	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.25	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.87	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.48	RATIO	1.00 - 2.00

## INTERPRETATION

**NOTE:** To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: Differential diagnosis of diseases of hepatobiliary system and pancreas.

# INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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BARCODE NO.	: 01527028	<b>COLLECTION DATE</b>	: 13/Mar/2025 07:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 13/Mar/2025 12:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
Test Name		Value Unit	Biological Reference interval

## 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).

PROGNOSTIC SIGNIFICANCE:

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)

 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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hopra & Microbiology) nsultant Pathologist	robiology) ME		
PA	TIENT ID	: 1790034	
RE	G. NO./LAB NO.	:012503130	
RE	GISTRATION DATE	:13/Mar/202	

**REPORTING DATE** 

PATIENT ID	: 1790034
<b>REG. NO./LAB NO.</b>	: 012503130003
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:13/Mar/202512:05PM

**CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

: KOS DIAGNOSTIC LAB

: Mr. RAJU BALI

: 48 YRS/MALE

:01527028

:

:

Dr. Vinay Cl MD (Pathology Chairman & Co

Test Name	Value	Unit	Biological Reference interval
KIDNI	EY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	28.27	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	1.29	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by Calculated, spectrophotometry	13.21	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	10.24	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	21.91	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	6.36	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.85	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry	2.93	mg/dL	2.30 - 4.70
ELECTROLYTES		1.4	
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	139	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.11	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	104.25	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE			
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM	68.4		

# by CALCULATED

**INTERPRETATION:** 

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)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

NAME

AGE/ GENDER

**COLLECTED BY** 

**REFERRED BY** 

**BARCODE NO.** 

**CLIENT CODE.** 





ACC GENDER       : 48 YRS/MALE       PATIENT ID       : 1790034         COLLECTED BY       ::       REG. NO./LAB NO.       : 012503130003         REFERED BY       ::       REGISTRATION DATE       : 13/Mar/2025 07:56 AM         SARCODE NO.       ::01527028       COLLECTION DATE       ::13/Mar/2025 07:59 AM         SARCODE NO.       ::01527028       COLLECTION DATE       ::13/Mar/2025 07:59 AM         SLIENT CODE       ::KOS DIAGNOSTIC LAB       REPORTING DATE       ::13/Mar/2025 12:05 PM         SLIENT ADDRESS       ::6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interva         4. High protein intake.       :       :Name       Value       Unit       Biological Reference interva         4. High protein intake.       :       <		1	<b>Dr. Vinay Chopr</b> 1D (Pathology & Mici Chairman & Consultai	obiology)		ugam Chop MD (Patholog sultant Patholog	gy)			
COLLECTED BY       I:       REG. NO./LAB NO.       I: 012503130003         REFERED BY       I:       REGISTRATION DATE       I: 3/Mar/2025 07:56 AM         BARCODE NO.       I: 01527028       COLLECTION DATE       I: 3/Mar/2025 07:59 AM         SLIENT CODE       I: KOS DIAGNOSTIC LAB       REPORTING DATE       I: 3/Mar/2025 12:05 PM         CLIENT ADDRESS       I: 6349/1, NICHOLSON ROAD, AMBALA CANTT       I: 13/Mar/2025 12:05 PM         Test Name       Value       Unit       Biological Reference interval         1. High protein intake.       .       .       .         1. more reabsorption (e.g. ureter colostomy)       .       .       .         2. Urine reabsorption (e.g. ureter colostomy)       .       .       .         3. Recense torim intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, norms, surger, cachexia, high fevel).       .         7. Urine reabsorption (e.g. ureter colostomy)       .       .       .         8. Recensed toring (SUL Toring Superimposed on renal disease.       .       .       .         9. Oregandez       .       .       .       .         1. Acute tubular necresis       .       .       .       .         1. Acute tubular necresis       .       .	NAME	: Mr. RAJU BA	LI							
REFERED BY       ::::::::::::::::::::::::::::::::::::	AGE/ GENDER	: 48 YRS/MALH	2	P	ATIENT ID	: 1790	034			
REFERED BY       ::::::::::::::::::::::::::::::::::::	COLLECTED BY	:		R	EG. NO./LAB NO.	:012	50313000	3		
BARCODE NO.       1: 01527028       COLLECTION DATE       1: 3/Mar/2025 07:59AM         CLIENT CODE       1: 0052012       1: 3/Mar/2025 12:05PM         CLIENT ADDREST       1: 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interval         1: High protein intake.       1       Biological Reference interval         1: High protein intake.       1       Biological Reference interval         2: Kress protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, purs, surgery, cachexia, high fevor).       1         3: Beduced muscle mass (subnormal creatinine production)       8. Reduced muscle mass (subnormal creatinine production)         9: Certan drugs (e.g. tretacycline, glucocorticoids)       NICRASED RATIO (-20:1) WITH ELEVATED CREATININE LEVELS:         1: Other causes of decreased urea synthesis.       9. Perenal azotemia (gluma intervalia)         1: Other causes of decreased urea synthesis.       9. Regramo:         2: Other causes of decreased urea synthesis.       9. Regramo:         3: Swelar patients who develop renal failure.       1. Regramo:         2: CREASED RATIO (-10:1) WITH INCREASED CREATININE:       1. Regramo:         3: Anald (stree an increase of acreases failes increase in creatinine with certain methodologies, resulting in normal ratio when dehydrichould with crease in crease in creat										
ELERT CODE       KOS DIACNOSTIC LAB       REPORTING DATE       I:3/Mar/2025 12:05PM         ELERT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Fest Name       Value       Unit       Biological Reference interva         4. High protein intake.       :       Impaired renal function plus         5. Excess protein intake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, surns, surgery, cachevida, high fever).         7. Urine reabsorption (e.g. ureter colostomy)       :       Reduced muscle mass (Subnormal creatinine production)         9. Reduced muscle mass (Subnormal creatinine production)       :       :         9. Reduced muscle mass (Subnormal creatinine production)       :       :         9. Reduced muscle mass (Subnormal creatinine production)       :       :         9. Reduced muscle mass (Subnormal creatinine production)       :       :         9. Reduced muscle mass (Subnormal creatinine production)       :       :         9. Reduced muscle mass (Subnormal creatinine production)       :       :         9. Proteinal azotemia (BUM rises disproportionately more than creatinine) (e.g. obstructive uropathy).       :         9. Proteini dita and starvation.       :       :         10. Other causes of decreased urea synthesis.       :       :         10. Other causes		· · 01527028								
CLENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interval         4. High protein intake.       Impaired renal function plus       Impaired renal function plus         5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, purs, surgery, cachexia, high fever).       Impaired renal function plus         9. Urine readsorption (e.g. ureter colostomy)       Impaired renals (purcher colostomy)       Impaired renals (purcher colostomy)         9. Ordend muscle mass (subnormal creatinine production)       Excess protein intake or production ately more than creatinine) (e.g. obstructive uropathy).         0. Certain drug (e.g. tetrazycillen, elyluccorrelotable)       Impaired renals superimposed on renal disease.         VEXESDE NATIO (>0:1) WITH ELEVATED CREATINNE LEVELS       Impaired renals superimposed on renal disease.         9. Compatibility (e.g. tetrazycillen, elyluccorrelotable)       Impaired renals superimposed on renal disease.         9. Order disease.       Impaired renals superimposed on renal disease.         9. Sovere Hure Reference Masson.       Impaired renarge function ately more than creatinine) (e.g. obstructive uropathy).         9. Sovere Hure Reference Masson.       Impaired reference interase in creatinine function.         9. Sovere Hure Reference Masson.       Impaired reference interase in creatinine with certain methodologies, resulting i										
Test Name       Value       Unit       Biological Reference interva         4. High protein intake.					EPURIING DATE	. 13/ M	Iar/ 2023 1/	2.03PM		
4. High protein intake.         5. Impaired renal function plus         6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, Jurns, surgery, cachxia, high fever).         7. Urine reabsorption (e.g. ureter colostomy)         8. Reduced muscle mass (subnormal creatinine production)         9. Certain drugs (e.g. tetracycline, glucocorticoids)         NCREASED RATIO (-20:1) WITH ELEVATED CREATININE LEVELS:         1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         2. Prerenal acotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         2. Prerenal acotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         3. Pregnancy.         Worth (G.g. (rise)         3. Pregnancy.         DCCREASED RATIO (-10:1) WITH INCREASED CREATININE:         1. Phenacimide therapy (accelerates conversion of creatine to creatinine).         2. Rhabdomyolysis (releases muscle creatinine).         2. Rhabdomyolysis (releases muscle creatinine).         3.	ULIENT ADDRESS	: 6349/1, NICF	IOLSON ROAD, AMB	ALA CANTT						
5. Impaired renal function plus 5. Excess protein intake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, 2. Uriner, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20.') WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia superimposed on renal disease. PECREASED RATIO (>10.') WITH DECREASED BUN : 1. Acute tubular necrosis. 2. Low protein diet and starvation. 3. Severe liver disease. 4. Other causes of decreased urea synthesis. 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 5. Inherited hyperamonemias (urea is virtually absent in blood). 7. SIADH (syndrome of inapproplate antidiuretic harmone) due to tubular secretion of urea. 3. Pregnancy. DECREASED RATIO (<10.') WITH INCREASED CREATININE: 1. Phenacimide therapy (accelerates conversion of creatine to creatinine). 2. Rhabdomyolysis (releases muscle creatinine). 3. Muscular patients who develop renal failure. INAPPROPIATE RATIO I. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydra: should produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED CIONERULAR THETERATION RATE: I. Thenal kidney function >90  No proteinuria G1  Normal kidney function >90  Presence of Protein ,	Test Name			Value	Unit	t	Biologi	cal Refer	ence inter	val
G2Kidney damage with normal or high GFR>90Presence of Protein , Albumin or cast in urineG3aMild decrease in GFR60 -89G3bModerate decrease in GFR30-59	9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia	tetracycline, glu <b>0:1) WITH ELEVA</b> (BUN rises dispr	cocorticoids) TED CREATININE LEV oportionately more	ELS:	) (e.g. obstructive	uropathy).				
normal or high GFRAlbumin or cast in urineG3aMild decrease in GFR60 -89G3bModerate decrease in GFR30-59	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 3. Severe liver disease 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 OKD STAGE	tetracycline, glui <b>0:1) WITH ELEVA</b> (BUN rises dispr superimposed of <b>0:1) WITH DECRE</b> osis. Ind starvation. e. creased urea syn urea rather than monemias (urea of inappropiate a <b>0:1) WITH INCRE</b> py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w UAR FILTERATION	cocorticoids) <b>TED CREATININE LEV</b> oportionately more in renal disease. <b>CASED BUN :</b> thesis. creatinine diffuses of is virtually absent in intidiuretic harmone) <b>ASED CREATININE:</b> onversion of creating reatinine). al failure. causes false increase atinine ratio). vith creatinine measu <b>IRATE:</b> <b>DESCRIPTION</b>	ELS: than creatinine blood). due to tubular e to creatinine) e in creatinine irement).	ular fluid). secretion of urea. with certain meth /min/1.73m2 )	nodologies,resu	FINDINGS	mal ratio v	when dehyd	drati
G3b Moderate decrease in GFR 30-59	<ol> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;'</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>G1</li> </ol>	tetracycline, glui <b>0:1) WITH ELEVA</b> (BUN rises dispr superimposed of <b>0:1) WITH DECRE</b> osis. Id starvation. e. creased urea syn urea rather than monemias (urea of inappropiate a <b>0:1) WITH INCRE</b> py (accelerates c eleases muscle c who develop rer : sis (acetoacetate creased BUN/cre apy (interferes w ULAR FILTERATION Norn	cocorticoids) <b>TED CREATININE LEV</b> oportionately more in renal disease. <b>CASED BUN :</b> thesis. creatinine diffuses of is virtually absent in intidiuretic harmone) <b>ASED CREATININE:</b> onversion of creating reatinine). al failure. causes false increase atinine ratio). vith creatinine measu <b>I RATE:</b> <b>DESCRIPTION</b> nal kidney function	ELS: than creatinine blood). due to tubular e to creatinine) e in creatinine irement).	ular fluid). secretion of urea. with certain meth <u>(min/1.73m2 )</u> >90	nodologies,resu ASSOCIATEL No prot	<b>FINDINGS</b> einuria	mal ratio v	when dehyd	drati
	<ul> <li>P. Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>PecREASED RATIO (</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>PECREASED RATIO (</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>cephalosporin ther</li> <li>STIMATED GLOMERI</li> <li>G1</li> <li>G2</li> </ul>	tetracycline, glui 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. Id starvation. 2. creased urea syn urea rather than monemias (urea of inappropiate a 0:1) WITH INCRE py (accelerates c eleases muscle c who develop rer : sis (acetoacetate creased BUN/cre apy (interferes w UAR FILTERATION Norn Kic n	cocorticoids) <b>TED CREATININE LEV</b> oportionately more in renal disease. <b>CASED BUN :</b> thesis. creatinine diffuses of is virtually absent in intidiuretic harmone) <b>ASED CREATININE:</b> onversion of creating reatinine). al failure. causes false increase atinine ratio). vith creatinine measu <b>I RATE:</b> <b>DESCRIPTION</b> nal kidney function Iney damage with rmal or high GFR	ELS: than creatinine blood). due to tubular e to creatinine) e in creatinine rement). GFR ( mL/	ular fluid). secretion of urea. with certain meth <u>(min/1.73m2 )</u> >90 >90	nodologies,resu ASSOCIATEL No prot Presence o	FINDINGS einuria f Protein ,		when dehyd	Jrati
G4 Severe decrease in GFR 15-29	<ul> <li>P. Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Perenal azotemia</li> <li>Perenal azotemia</li> <li>DECREASED RATIO (</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Nabedomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>hould produce an in</li> <li>Cephalosporin ther</li> <li>STIMATED GLOMERL</li> <li>G1</li> <li>G2</li> </ul>	tetracycline, glui <b>0:1) WITH ELEVA</b> (BUN rises dispr superimposed of <b>0:1) WITH DECRE</b> osis. Id starvation. <i>2.</i> creased urea syn urea rather than monemias (urea if inappropiate a <b>0:1) WITH INCRE</b> py (accelerates c eleases muscle c who develop rer : sis (acetoacetate creased BUN/crea apy (interferes w <u>ILAR FILTERATION</u> Norn Kic 	cocorticoids) <b>TED CREATININE LEV</b> oportionately more in renal disease. <b>FASED BUN :</b> thesis. creatinine diffuses of is virtually absent in intidiuretic harmone) <b>ASED CREATININE:</b> onversion of creating reatinine). al failure. causes false increase atinine ratio). vith creatinine measu. <b>IRATE:</b> <b>DESCRIPTION</b> nal kidney function Iney damage with rmal or high GFR d decrease in GFR	ELS: than creatinine blood). due to tubular e to creatinine) e in creatinine rement). GFR ( mL/	ular fluid). secretion of urea. with certain meth <u>(min/1.73m2 )</u> >90 >90	nodologies,resu ASSOCIATEL No prot Presence o	FINDINGS einuria f Protein ,		when dehyd	drati
G5 Kidney failure <15	<ul> <li>P. Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;</li> <li>1. Acute tubular necr</li> <li>2. Low protein diet ar</li> <li>3. Severe liver disease</li> <li>4. Other causes of de</li> <li>5. Repeated dialysis (</li> <li>6. Inherited hyperam</li> <li>7. SIADH (syndrome of</li> <li>8. Pregnancy.</li> <li>DECREASED RATIO (</li> <li>1. Phenacimide thera</li> <li>2. Rhabdomyolysis (r</li> <li>3. Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>1. Diabetic ketoacido</li> <li>should produce an in</li> <li>2. Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>G1</li> <li>G2</li> <li>G3a</li> <li>G3b</li> </ul>	tetracycline, glui <b>0:1) WITH ELEVA</b> (BUN rises dispr superimposed of <b>0:1) WITH DECRE</b> osis. Id starvation. e. creased urea syn urea rather than monemias (urea if inappropiate a <b>0:1) WITH INCRE</b> py (accelerates c eleases muscle c who develop rer : sis (acetoacetate creased BUN/crea apy (interferes w <u>ILAR FILTERATION</u> Norr Kic nc	cocorticoids) <b>TED CREATININE LEV</b> oportionately more in renal disease. <b>FASED BUN :</b> thesis. creatinine diffuses of is virtually absent in intidiuretic harmone) <b>ASED CREATININE:</b> onversion of creating reatinine ratio). al failure. causes false increase atinine ratio). ith creatinine measu <b>IRATE:</b> <b>DESCRIPTION</b> mal kidney function Iney damage with rmal or high GFR d decrease in GFR rate decrease in GFR	ELS: than creatinine blood). due to tubular e to creatinine rement). GFR (mL/	ular fluid). secretion of urea. with certain meth <u>(min/1.73m2 ) &gt;90 &gt;90 &gt;90 0 -89 30-59</u>	nodologies,resu ASSOCIATEL No prot Presence o	FINDINGS einuria f Protein ,		when dehyd	drati











	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mr. RAJU BALI		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1790034
COLLECTED BY	:	REG. NO./LAB NO.	: 012503130003
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 13/Mar/2025 07:56 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
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





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







	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mr. RAJU BALI			
AGE/ GENDER	: 48 YRS/MALE		PATIENT ID	: 1790034
COLLECTED BY	:		REG. NO./LAB NO.	: 012503130003
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 13/Mar/2025 07:56 AM
BARCODE NO.	: 01527028		<b>COLLECTION DATE</b>	: 13/Mar/2025 07:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Mar/2025 12:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	82.9	µg/dL	59.0 - 158.0
UNSATURATED IR	ON BINDING CAPACITY (UIBC)	233.34	μg/dL	150.0 - 336.0

	VARIABLES AI	NEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
Į	INTERPRETATION:-			
	by SPECTROPHOTOMETERY (FERENE)		0	
,	TRANSFERRIN: SERUM	224.53	mg/dL	200.0 - 350.0
(	%TRANSFERRIN SATURATION: SERU by CALCULATED, SPECTROPHOTOMETERY		%	15.0 - 50.0
:	SERUM by SPECTROPHOTOMETERY			
,	TOTAL IRON BINDING CAPACITY (TI	BC) 316.24	μg/dL	230 - 430
:	SERUM by FERROZINE, SPECTROPHOTOMETERY			
	UNSATURATED IRON DINDING CAPA	LIII (UIDC) 233.34	µg/uL	130.0 - 330.0

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	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.



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	Dr. Vinay C MD (Pathology Chairman & Co		Dr. Yugam C MD (Par CEO & Consultant Pat	hology)	
NAME	: Mr. RAJU BALI				
AGE/ GENDER	: 48 YRS/MALE	PATI	ENT ID :	1790034	
COLLECTED BY	:	REG. I	NO./LAB NO. :	012503130003	
REFERRED BY	:	REGIS	TRATION DATE :	13/Mar/2025 07:56 AM	
BARCODE NO.	: 01527028	COLL	ECTION DATE :	13/Mar/2025 07:59AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE :	13/Mar/2025 12:41PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Referenc	e interval
		ENDOCRING	DLOGY		
	T	HYROID FUNCTION	TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO	1.09 ASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immuno,	9.29 ASSAY)	µgm/dL	4.87 - 12.60	
	ATING HORMONE (TSH): SER		µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
INTERPRETATION:					
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak leve measured serum TSH concentrations. T lure at any level of regulation of the l rroidism) of T4 and/or T3.	SH stimulates the production	and secretion of the metab	olically active hormones, thyroxine	
CLINICAL CONDITION	Т3	T4		TSH	
Primary Hypothyroidis	m: Reduced	Redu		ased (Significantly)	

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

# LIMITATIONS:-

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.

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.

TRIIODOTHYRONINE (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	





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
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Test Name		Value Unit		<b>Biological Reference interv</b>		
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	
	RECO	MMENDATIONS OF TSH LI	<b>VELS DURING PRE</b>	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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME       : Mr. RAJU BALI         AGE/ GENDER       : 48 YRS/MALE       PATIENT ID       : 1790034         COLLECTED BY       :       REG. NO./LAB NO.       : 012503130003         REFERRED BY       :       REGISTRATION DATE       : 13/Mar/2025 07:56 AM         BARCODE NO.       : 01527028       COLLECTION DATE       : 13/Mar/2025 07:56 AM         CLIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 13/Mar/2025 12:41PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interv         VITAMIN D/25 HYDROXY VITAMIN D3         VITAMIN D (25-HYDROXY VITAMIN D3): SERUM       23,693 <sup>L</sup> ng/mL       DEFICIENCY: < 20.0         INVERTIGIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         NOT MIND 0/25-HYDROXY VITAMIN D3): SERUM         VITAMIN D (25-HYDROXY VITAMIN D3): SERUM         NUTERPRETATION:         DEFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 30.0         NU		MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologis	M	m <b>Chopra</b> D (Pathology) nt Pathologist	
VITAMINS         VITAMIN D/25 HYDROXY VITAMIN D3         VITAMIN D (25-HYDROXY VITAMIN D3): SERUM 23.693 <sup>L</sup> ng/mL       DEFICIENCY: 20.0 - 30.0         by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)         DEFICIENCY: 20.0 - 100.0         TOXICITY: > 100.0         INTERPRETATION:         DEFICIENT:        <20       ng/mL         INTOXICATION:         NOTO       ng/mL         INTOXICATION:         > 100       ng/mL         INTOXICATION:         > 2.25-OHVitamin D compounds are derived from dietary erocacliferol (from plants. Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin uoon Ultraviolet exposure.         2.25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adigitissue and tightly bound by a transport protein while in circulation.         Average deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteoomalacia in adul DECREASED:         1.acdequate intake, malabsorption (celiac disease)         3.Depressed Hepatic Vitamin D 25- hydroxylase activity         Ascondary Hyperparathroidism (Mild to Moderat	AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: 48 YRS/MALE : : : 01527028 : KOS DIAGNOSTIC L	N ROAD, AMBALA CANTT	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012503130003 : 13/Mar/2025 07: : 13/Mar/2025 07: : 13/Mar/2025 12:4	59AM 41PM
VITAMIN D/25 HYDROXY VITAMIN D3): SERUM       23.693 <sup>L</sup> ng/mL       DEFICIENCY: 20.0         by CLIA (CHEMILLIMINESCENCE IMMUNOASSAY)         SUFFICIENCY: 20.0 - 30.0         SUFFICIENCY: 20.0 - 100.0         TOXICITY: > 100.0         TOXICITY: > 100.0         TOXICITY: > 100.0         NTERPRETATION:         O 100 ng/mL         NITACVICATION:         NOT 000 ng/mL         NITACVICATION:         NOT 000 ng/mL         NITACVICATION:         NOT 000 ng/mL         NOT 000 ng/mL         NITACVICATION:         NOT 000 ng/mL         NITACVICATION: <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
VITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)       23.693 <sup>L</sup> ng/mL       DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0         INTERPRETATION: <ul> <li></li></ul>						
by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)       INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0         INTERPRETATION:         INTERPRETATION:         INSUFFICIENT:       21 - 29       ng/mL         INSUFFICIENT:       21 - 29       ng/mL         INTERPRETATION:         INTERPRETATION:         PREFFERED RANGE:       30 - 100       ng/mL         INTOXICATION:       > 100       ng/mL         INTOXICATION:       > 100       ng/mL         INTOXICATION:         A 100       ng/mL         INTOXICATION:         > 100       ng/mL         INTOXICATION:       > 100         Colspan="2">Indepute to the other dietary ergocalciferol (from plants. Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.         2.25-OHVitamin D pays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phays a primary role in the maintenance of calcium mobilization, mainly regulated by parathyroid harmone (PTH).         A Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adul DECREASED: </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
DEFICIENT:         < 20         ng/mL           INSUFFICIENT:         21 - 29         ng/mL           PREFFERED RANGE:         30 - 100         ng/mL           INTOXICATION:         > 100         ng/mL           1.Vitamin D compounds are derived from dietary ergocalciferol (from plants. Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7 - dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.           2.25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adigitissue and tightly bound by a transport potein while in circulation.           3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).           4.Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adul <b>DECREASED</b> :           1.Lack of sunshine exposure.         2.Inadeguate intake, malabsorption (celiac disease)           3.Depressed Hepatic Vitamin D 25- hydroxylase activity         4.Secondary to advanced Liver disease           5.Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)         6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.           INCREASED:         1.Hypervitaminosis D is Rare, and is seen only after prolonged e	by CLIA (CHEMILUMINE			ng/mL	INSUFFIC SUFFICIE	CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
INSUFFICIENT:         21 - 29         ng/mL           PREFFERED RANGE:         30 - 100         ng/mL           INTOXICATION:         > 100         ng/mL           1.Vitamin D compounds are derived from dietary eraccalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7 - dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.         2.25-OHVitamin D represents the main body reservoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adigitissue and tightly bound by a transport protein while in circulation.           3. Vitamin D plays a primary role in the maintenance of calcium momeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).           4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adul DECREASED:           1. Lack of sunshine exposure.         2.1 nadeguate intake, malabsorption (celiac disease)           3. Depressed Hepatic Vitamin D 25- hydroxylase activity           4. Secondary to advanced Liver disease           5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)           6. Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.           INCREASED:           1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D.		IFNT	< 20		ng/ml	
INTOXICATION:       > 100       ng/mL         I. Vitamin D compounds are derived from dietary ergocalciferol (from plants. Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.         2.2.5-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adigitize and tightly bound by a transport protein while in circulation.         3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).         1. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adul <b>DECERASED:</b> 1. Lack of sunshine exposure.       2.         2. Inadequate intake, malabsorption (celiac disease)         3. Depressed Hepatic Vitamin D 25- hydroxylase activity         2. Secondary to advanced Liver disease         5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)         5. Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.         NCREASED:         1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result evere hypercalcemia and hyperphophatemia.         CAUTION: Replacement therapy in deficient individuals must						
<ul> <li>I. Vitamin D compounds are derived from dietary eraocalciferol (from plants. Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.</li> <li>2.25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adigitistic and tightly bound by a transport protein while in circulation.</li> <li>3.Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH).</li> <li>4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adul <b>DECREASED:</b></li> <li>2. Inadequate intake, malabsorption (celiac disease)</li> <li>3. Depressed Hepatic Vitamin D 25- hydroxylase activity</li> <li>4. Secondary to advanced Liver disease</li> <li>5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)</li> <li>5. Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.</li> <li>NCREASED:</li> <li>1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result severe hypercalcemia and hyperphophatemia.</li> <li>CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D. When it orcurs, it can result provent aminosis D</li> </ul>						
<b>NOTE</b> :-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment whic interefere with Vitamin D absorption.	conversion of 7- dihva 2.25-OHVitamin D re tissue and tightly bou 3.Vitamin D plays a pi phosphate reabsorpti 4.Severe deficiency m <b>DECREASED:</b> 1.Lack of sunshine exit 2.Inadequate intake, 3.Depressed Hepatic ' 4.Secondarv to advan 5.Osteoporosis and Se 6.Enzyme Inducing dr <b>INCREASED:</b> 1. Hypervitaminosis D severe hypercalcemia <b>CAUTION:</b> Replacement hypervitaminosis D <b>NOTE:</b> -Dark coloured i	Irocholecalciferol to Vi presents the main boc nd by a transport prot imary role in the main on, skeletal calcium de ay lead to failure to m posure. malabsorption (celiac /itamin D 25- hydroxyl ced Liver disease econdary Hyperparathr ugs: anti-epileptic drug is Rare, and is seen or and hyperphophatemin t therapy in deficient in therapy in deficient	tamin D3 in the skin upon y resevoir and transport fe ein while in circulation. tenance of calcium home position, calcium mobiliza neralize newly formed os disease) ase activity oidism (Mild to Moderate s like phenytoin, phenoba lv after prolonged exposu a. ndividuals must be monite	a Ultraviolet exposure. orm of Vitamin D and tran ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine are to extremely high dose ored by periodic assessme	asport form of Vitamin D um absorption, renal cal o parathyroid harmone ( rickets in children and o e, that increases Vitamin es of Vitamin D. When it ent of Vitamin D levels in	b, being stored in adipose lcium absorption and PTH). osteomalacia in adults. D metabolism. occurs, it can result in n order to prevent

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD		ATING DATE	. 10/ Wall/ 2020 12.411 W
		,		
Test Name		Value	Unit	<b>Biological Reference interval</b>
			DECREASED VITAMIN	I B12
INCREASED VITAMIN B12 1.Ingestion of Vitamin C		1.Pregnancy	DECREASED VITAMIN	J B12
2.Ingestion of Estrogen			in, Anti-convulsants	, Colchicine
3.Ingestion of Vitar	min A	3.Ethanol Igest	tion	
4.Hepatocellular injury		4. Contraceptiv 5.Haemodialys		
	5.Myeloproliferative disorder		sis	
5.Myeloproliferativ				
5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (coba	lamin) is necessary for hematop tained only from animal protein		nal function.	tion





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	licrobiology)	Dr. Yugam MD O & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO		
		TINE & MICROSCOP	IC EXAMINA	ATION
PHYSICAL EXAMI				
QUANTITY RECIEV	ED CTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLEC TRANSPARANCY	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
	TANCE SPECTROPHOTOMETRY	ΠΑΖΙ		CLEAR
SPECIFIC GRAVITY		1.01		1.002 - 1.030
CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		2+		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	MEGATIVE (-VE)		NEGATIVE (-VC)
MICROSCOPIC EX				
RED BLOOD CELLS	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3





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NANGE





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

DATIDATI

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

NAME	: Mr. RAJU BALI			
AGE/ GENDER	: 48 YRS/MALE	PATI	IENT ID	: 1790034
COLLECTED BY	:	REG.	NO./LAB NO.	: 012503130003
<b>REFERRED BY</b>	:	REGI	STRATION DATE	: 13/Mar/2025 07:56 AM
BARCODE NO.	: 01527028	COLI	LECTION DATE	: 13/Mar/2025 07:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 13/Mar/2025 02:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS		1-2	/HPF	ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
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)	ABSENT	ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

\*\*\* End Of Report \*\*\*



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