

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD ( CEO & Consultant	Pathology)
NAME	: Mr. RAMESH KUMAR			
AGE/ GENDER	: 42 YRS/MALE	P	ATIENT ID	: 1678029
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012411210040
REFERRED BY	:		EGISTRATION DATE	: 21/Nov/2024 12:38 PM
BARCODE NO. CLIENT CODE.	: 01521211 : KOS DIAGNOSTIC LAB	-	OLLECTION DATE REPORTING DATE	: 21/Nov/2024 12:40PM : 21/Nov/2024 12:46PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.		LEF OR THING DATE	. 21/100/2024 12.40110
Fest Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HYA WEL	LNESS PANEL: 1.5	
	COMP	PLETE BLO	OD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
IAEMOGLOBIN (H		15.6	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (	RBC) COUNT	4.7	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
ACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	47.6	%	40.0 - 54.0
	AR VOLUME (MCV) utomated hematology analyzer	101.5 <sup>H</sup>	fL	80.0 - 100.0
AEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	33.3	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.8	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.3	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	50.5	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		21.6	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INE by calculated		28.82	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
		7710	/cmm	4000 - 11000
			/ 011111	1000 11000
DOTAL LEUCOCYTE	SLOOD CELLS (nRBCS)	NIL		0.00 - 20.00

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)

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

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Page 1 of 21





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

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

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Test Name	Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	59	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	29	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4549	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2236	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	231	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	694	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	218000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.22	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	52000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	23.8	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16	%	15.0 - 17.0



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

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







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>





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







CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 21/Nov/2024 02:37PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interva         Client ADDRESS         Comparison of the state of the st		Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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REGESTRATION DATE: 21/Nov/2024 12:38 PMBARCODE NO.: 01521211COLLECTION DATE: 21/Nov/2024 12:40 PMCLIENT CODE.: KOS DIAGNOSTIC LABREPORTING DATE: 21/Nov/2024 02:37 PMCLIENT ADDRESS: 6349/1, NICHOLSON ROAD, AMBALA CANTTBiological Reference intervaTest NameValueUnitBiological Reference intervaCLYCOSYLATED HAEMOGLOBIN (HBA1c):5.4%4.0 - 6.4SULVOSYLATED HAEMOGLOBIN (HBA1c)CLYCOSYLATED HAEMOGLOBIN (HBA1c)SULVOSYLATED HAEMOGLOBIN (HBA1c)SULVOSYLATED HAEMOGLOBIN (HBA1c)MUEROSCULUID CHROMATOGRAPHY)SULVOSYLATED HAEMOGLOBIN (HBA1c)MUERPRETATION:108.28mg/dL60.00 - 140.00by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:SULVENCE5.7MIERPRETATION:AS PER AMERICAN DIABETES ASSOCIATION (ADA): CHICH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION: $< 5.7$ Mon diabetic Adults >= 18 years<5.7AR BE Y PARS<5.7AR BEY S<5.7AR Diagosing Diabetes>= 6.5Goals of Therapy:< C1.0Age < 19 YearsGoals of Therapy:< C1.0Age < 19 YearsGoals of Therapy:< C1.0Age < 19 Years	AGE/ GENDER	: 42 YRS/MALE	PATIEN	IT ID	: 1678029
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CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interva         CLIENT ADDRESS       CalycosylAted Haemoglobin (HBA1c)       Solution (Added to the context of the c	BARCODE NO.	:01521211	COLLEG	TION DATE	: 21/Nov/2024 12:40PM
Test Name       Value       Unit       Biological Reference interval         GLYCOSYLATED HAEMOGLOBIN (HBA1C)         GLYCOSYLATED HAEMOGLOBIN (HBA1c):       5.4       %       4.0 - 6.4         WHOLE BLOOD         by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)         ESTIMATED AVERAGE PLASMA GLUCOSE       108.28       mg/dL       60.00 - 140.00         by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)         INTERPRETATION:         INTERPRETATION:         AS PER AMERICAN DIABETES ASSOCIATION (ADA):         CLYCOSYLATED HEMOGLOGIB (HBAIC) in %         Non diabetic Adults >= 18 years       <5.7	CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b> : 21/Nov		: 21/Nov/2024 02:37PM
G         GLYCOSYLATED HAEMOGLOBIN (HBA1C)         GLYCOSYLATED HAEMOGLOBIN (HbA1c):         GLYCOSYLATED HAEMOGLOBIN (HBA1c):         GLYCOSYLATED HAEMOGLOBIN (HBA1c):         by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)         ESTIMATED AVERAGE PLASMA GLUCOSE         by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)         INTERPRETATION:         INT	CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT				
GLYCOSYLATED HAEMOGLOBIN (HbA1c):       5.4       %       4.0 - 6.4         WHOLE BLOOD       by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)       108.28       mg/dL       60.00 - 140.00         ESTIMATED AVERAGE PLASMA GLUCOSE       108.28       mg/dL       60.00 - 140.00         by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)       108.28       mg/dL       60.00 - 140.00         INTERPRETATION:	Test Name		Value	Unit	Biological Reference interval
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by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:		MOGLOBIN (HbA1c):	5.4	%	4.0 - 6.4
ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)       108.28       mg/dL       60.00 - 140.00         INTERPRETATION:         MERERENCE GROUP       GLYCOSYLATED HEMOGLOGIB (HBAIC) in %         Non diabetic Adults >= 18 years         At Risk (Prediabetes)         Diagnosing Diabetes         Age > 19 Years         Goals of Therapy:       <7.0		IANCE LIQUID CHROMATOGRAPHY)			
INTERPRETATION:         AS PER AMERICAN DIABETES ASSOCIATION (ADA):         REFERENCE GROUP       GLYCOSYLATED HEMOGLOGIB (HBAIC) in %         Non diabetic Adults >= 18 years       <5.7	ESTIMATED AVERAGE PLASMA GLUCOSE		108.28	mg/dL	60.00 - 140.00
REFERENCE GROUP         GLYCOSYLATED HEMOGLOGIB (HBAIC) in %           Non diabetic Adults >= 18 years         <5.7	•	IANCE LIQUID CHROMATOGRAPHY)			
Non diabetic Adults >= 18 years       <5.7		AS PER AMERICAN DIAE	BETES ASSOCIATION (ADA):		
At Risk (Prediabetes)     5.7 – 6.4       Diagnosing Diabetes     >= 6.5       Age > 19 Years       Goals of Therapy:       Therapeutic goals for glycemic control     Actions Suggested:     >8.0       Age < 19 Years	REI	FERENCE GROUP	GLYCOSYLATED HE	MOGLOGIB (HBAIC) ir	n %
Diagnosing Diabetes     >= 6.5       Age > 19 Years       Goals of Therapy:     < 7.0		1			
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Goals of Therapy:     < 7.0	Diaç	gnosing Diabetes			
Therapeutic goals for glycemic control     Actions Suggested:     >8.0       Age < 19 Years					
Age < 19 Years	There is				
	inerapeutic	goals for glycemic control			
Goal of therapy: <7.5					

# COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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





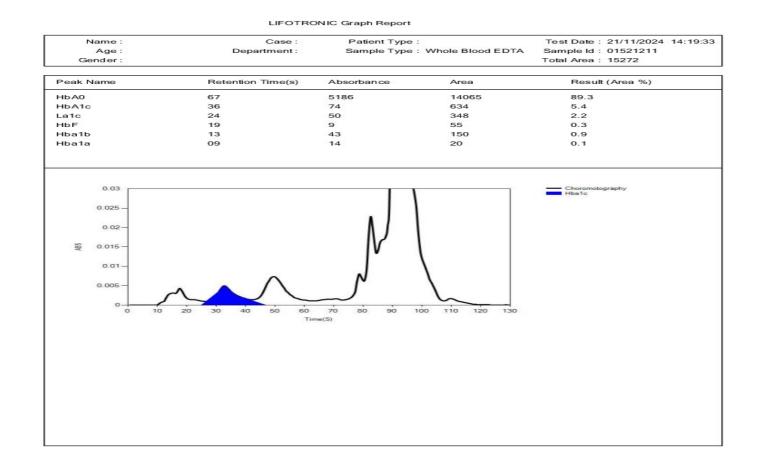
DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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Test Name		Value Unit	Biological Reference interva







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COLLECTED BY : REFERRED BY : BARCODE NO. : 01521211 CLIENT CODE. : KOS DIAG CLIENT ADDRESS : 6349/1, N Test Name ERYTHROCYTE SEDIMENTATIO by RED CELL AGGREGATION BY CAP NTERPRETATION: I. ESR is a non-specific test becaus mmune disease, but does not tell 2. An ESR can be affected by other as C-reactive protein 3. This test may also be used to me systemic lupus erythematosus CONDITION WITH LOW ESR A low ESR can be seen with condit	1 ENOSTIC LAB NICHOLSON ROAD, AMBALA CAN <b>Value</b> <b>ERYTHROCYTE SE</b> ON RATE (ESR) 20 <i>PILLARY PHOTOMETRY</i> se an elevated result often indication the health practitioner exactly with	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE TT Unit DIMENTATION RATE mm/1st tes the presence of inflamma here the inflammation is in th	: 012411210040 : 21/Nov/2024 12:38 PM : 21/Nov/2024 12:40PM : 21/Nov/2024 12:55PM Biological Reference interval (ESR) t hr 0 - 20 tion associated with infection, cancer and auto-
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RYTHROCYTE SEDIMENTATIO by RED CELL AGGREGATION BY CAU <b>TERPRETATION:</b> . ESR is a non-specific test becaus nmune disease, but does not tell . An ESR can be affected by other s C-reactive protein . This test may also be used to mo ystemic lupus erythematosus ONDITION WITH LOW ESR low ESR can be seen with condit	ERYTHROCYTE SE ON RATE (ESR) 20 PILLARY PHOTOMETRY se an elevated result often indicationer exactly with the health practitioner exactly with	DIMENTATION RATE ( mm/1si res the presence of inflamma here the inflammation is in th	(ESR) t hr 0 - 20 tion associated with infection, cancer and auto-
by RED CELL AGGREGATION BY CAN <b>STERPRETATION:</b> . ESR is a non-specific test becaus nmune disease, but does not tell . An ESR can be affected by other s C-reactive protein . This test may also be used to me ystemic lupus erythematosus <b>ONDITION WITH LOW ESR</b> . Iow ESR can be seen with condit	ON RATE (ESR) 20 PILLARY PHOTOMETRY se an elevated result often indicationer exactly with the health practitioner exactly with	mm/1si tes the presence of inflamma here the inflammation is in th	t hr 0 - 20 tion associated with infection, cancer and auto-
s sickle cells in sickle cell anaemi IOTE: . ESR and C - reactive protein (C-R . Generally, ESR does not change . CRP is not affected by as many o . If the ESR is elevated, it is typica . Women tend to have a higher ES	tions that inhibit the normal sedin n white blood cell count (leucocyt ia) also lower the ESR. RP) are both markers of inflammat e as rapidly as does CRP, either at <b>other factors as is ESR, making it a</b> ally a result of two types of protei SR, and menstruation and pregna	nentation of red blood cells, so osis), and some protein abno ion. the start of inflammation or a <b>better marker of inflammatio</b> ns, globulins or fibrinogen. ncy can cause temporary elev	on.





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Page 6 of 21





		& Microbiology) onsultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
NAME	: Mr. RAMESH KUMAR			
AGE/ GENDER	: 42 YRS/MALE	P	ATIENT ID	: 1678029
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012411210040
REFERRED BY	:	R	EGISTRATION DATE	: 21/Nov/2024 12:38 PM
BARCODE NO.	:01521211	C	OLLECTION DATE	: 21/Nov/2024 12:40PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 21/Nov/2024 01:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMIST	RY/BIOCHEMIST	'RY
		GLUCOSE F	ASTING (F)	

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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	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAMESH KUMAR			
AGE/ GENDER	: 42 YRS/MALE	P	ATIENT ID	: 1678029
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012411210040
<b>REFERRED BY</b>	:	R	EGISTRATION DATE	: 21/Nov/2024 12:38 PM
BARCODE NO.	:01521211	C	OLLECTION DATE	: 21/Nov/2024 12:40PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 21/Nov/2024 01:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROI	TIE . DASIC	
CHOI ESTEDAL TA				
CHOLESTEROL TO by CHOLESTEROL O		217.13 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	218.14 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM	51.9	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		121.6	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLES' by Calculated, spe		165.23 <sup>H</sup>	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER		43.63	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	652.4	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	4.18	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	<b>Dr. Vinay Cho</b> MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAMESH KUMAR			
AGE/ GENDER	: 42 YRS/MALE	PA	TIENT ID	: 1678029
COLLECTED BY	:	REC	G. NO./LAB NO.	: 012411210040
<b>REFERRED BY</b>	:	REG	<b>GISTRATION DATE</b>	: 21/Nov/2024 12:38 PM
BARCODE NO.	:01521211	COI	LECTION DATE	: 21/Nov/2024 12:40PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 21/Nov/2024 01:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
TestNews		Value	TL-24	
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by calculated, spe		2.34	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	4.2	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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAMESH KUMAR AGE/ GENDER : 42 YRS/MALE **PATIENT ID** :1678029 **COLLECTED BY** REG. NO./LAB NO. :012411210040 **REFERRED BY REGISTRATION DATE** : 21/Nov/2024 12:38 PM **BARCODE NO.** :01521211 **COLLECTION DATE** : 21/Nov/2024 12:40PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 21/Nov/2024 01:58PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LIVER FUNCTION TEST (COMPLETE) BILIRUBIN TOTAL: SERUM 0.49 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.13 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.36 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 41.2U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 61.1<sup>H</sup> U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 0.67 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 125.56 U/L 40.0 - 130.0

by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL			
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	183.15 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.28	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.19	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.09	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.36	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant	biology) MI	m <b>Chopra</b> D (Pathology) ht Pathologist
NAME	: Mr. RAMESH KUMAR		
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1678029
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012411210040
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 21/Nov/2024 12:38 PM
BARCODE NO.	:01521211	COLLECTION DATE	: 21/Nov/2024 12:40PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 21/Nov/2024 01:58PM
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).

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



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MBBS, MD (PATHOLOGY)







	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	Microbiology) MD (		(Pathology)
NAME	: Mr. RAMESH KUMAR			
AGE/ GENDER	: 42 YRS/MALE		PATIENT ID	: 1678029
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BARCODE NO.	:01521211		COLLECTION DATE	: 21/Nov/2024 12:40PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 21/Nov/2024 02:33PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANT	ſ	
Test Name		Value	Unit	Biological Reference interva
	KIDNE	EY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		33.04	mg/dL	10.00 - 50.00
	IATE DEHYDROGENASE (GLDH)	т		
CREATININE: SERU by ENZYMATIC, SPEC	JM TROPHOTOMETERY	1.52 <sup>H</sup>	mg/dL	0.40 - 1.40
	OGEN (BUN): SERUM	15.44	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	10.16	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM	21.74	RATIO	
URIC ACID: SERUM	[	6.47	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	E PERUXIDASE	10.33	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			Ű	
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.91	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		144.7	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	5.03 <sup>H</sup>	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	1	108.53	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	'E ELECTRODE) <b>IERULAR FILTERATION RATE</b>			
	ERULAR FILTERATION RATE	58.3		
(eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	08.3		
NOTE 2		RESULT	RECHECKED TWICE	

# NOTE 2

#### **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.

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. RAMESH KUMAR				
AGE/ GENDER	: 42 YRS/MALE		PATIENT ID	: 1678029	
COLLECTED BY	:		REG. NO./LAB NO.	: 012411210040	
REFERRED BY			<b>REGISTRATION DA</b>		8 PM
BARCODE NO.	:01521211		COLLECTION DATE		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE		
				. 21/100/2024 02.5	3F1M
CLIENT ADDRESS	: 6349/1, NICHOLSON R0	JAD, AMBALA CANT I			
Test Name		Value	Uni	t Biologica	Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet a 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 ir	nd starvation. e. ccreased urea synthesis. (urea rather than creatinine) monemias (urea is virtually of inappropiate antidiuretic <b>10:1) WITH INCREASED CREA</b> apy (accelerates conversion releases muscle creatinine). who develop renal failure. <b>D:</b> posis (acetoacetate causes fai acreased BUN/creatinine rat	: e diffuses out of extrac absent in blood). harmone) due to tubu <b>TININE:</b> of creatine to creatini lse increase in creatini	ilar secretion of urea. ne).	nodologies,resulting in norma	I ratio when dehydration
2. Cepnalosporin the <u>ESTIMATED GLOMERI</u>	rapy (interferes with creatin ULAR FILTERATION RATE:	ine measurement).			_
CKD STAGE			mL/min/1.73m2)	ASSOCIATED FINDINGS	-
<u>G1</u>	Normal kidney		>90	No proteinuria	-
G2	Kidney dama		>90	Presence of Protein,	

0.			
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	





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Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA UANT I	
CI IENT ADDDECC	. 6940/1 NICHOLSON DOAD AMDA	A CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 21/Nov/2024 02:33PM
BARCODE NO.	: 01521211	COLLECTION DATE	: 21/Nov/2024 12:40PM
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 21/Nov/2024 12:38 PM
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012411210040
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1678029
NAME	: Mr. RAMESH KUMAR		
	Chairman & Consultan		
	Dr. Vinay Chopra MD (Pathology & Micro		m Chopra D (Pathology)

COMMENTS:

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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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

ADVICE:

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



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NAME	: Mr. RAMESH KUMAR			
AGE/ GENDER	: 42 YRS/MALE	РАТ	IENT ID	: 1678029
COLLECTED BY	:	REG	. NO./LAB NO.	:012411210040
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 21/Nov/2024 12:38 PM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 21/Nov/2024 01:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		IRON PRO	DFILE	
IRON: SERUM		127.8	µg/dL	59.0 - 158.0
by FERROZINE, SPEC		15450		150.0 220.0
SERUM	ON BINDING CAPACITY (UIBC)	154.58	μg/dL	150.0 - 336.0
by FERROZINE, SPEC				
	ING CAPACITY (TIBC)	282.38	μg/dL	230 - 430
SERUM	IETERY			
%TRANSFERRIN SA	ATURATION: SERUM	45.26	%	15.0 - 50.0
•	CTROPHOTOMETERY (FERENE)	000.40	( )7	
TRANSFERRIN: SE		200.49	mg/dL	200.0 - 350.0
INTERPRETATION:-	. ,			

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):** 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	MD	Vinay Chopra (Pathology & Microbiolo rman & Consultant Path		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. RAMESH KU	JMAR				
AGE/ GENDER	: 42 YRS/MALE		PATIENT	' ID	: 1678029	
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BARCODE NO.	:01521211		COLLECT	ION DATE	: 21/Nov/2024 12:40PM	
CLIENT CODE.	: KOS DIAGNOSTI	C LAB	REPORT	ING DATE	: 21/Nov/2024 02:33PM	
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA C	ANTT			
Test Name		Valu	ie	Unit	Biological Refe	rence interval
			DOCRINOL			
			UNCTION T	EST: TOTAI		
TRIIODOTHYRONI	NE (T3): SERUM	0.62	25	ng/mL	0.35 - 1.93	
THYROXINE (T4): S		4.89	9	µgm/d	L 4.87 - 12.60	
THYROID STIMULA	TING HORMONE (		93	µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:						
day has influence on the	<i>measured serum TSH cor</i> lure at any level of regul	centrations. TSH stimulates ation of the hypothalamic-	the production and	secretion of the	npm. The variation is of the order of 50 metabolically active hormones, thyr ther underproduction (hypothyroidis)	oxine (T4)and
CLINICAL CONDITION		Т3	T4		TSH	
Primary Hypothyroidis		Reduced	Reduced		Increased (Significantly)	
Subclinical Hypothyroi	dism:	Normal or Low Normal	Normal or Lo	w Normal	High	

111	ЛТ	ЛЦ	)NS:-

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

Reduced (at times undetectable)

Reduced

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





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

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. RAMESH KUMAR		
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1678029
COLLECTED BY	:	REG. NO./LAB NO.	: 012411210040
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 21/Nov/2024 12:38 PM
BARCODE NO.	: 01521211	COLLECTION DATE	: 21/Nov/2024 12:40PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Nov/2024 02:33PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>

Test Name		Value	Unit		Biological Reference interval	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS 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		
•					6	

#### **INCREASED TSH LEVELS:**

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester





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

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







AGE/ GENDER : 42 YR. COLLECTED BY : REFERRED BY : BARCODE NO. : 01521 CLIENT CODE. : KOS D CLIENT ADDRESS : 6349/ Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE) INTERPRETATION: INSUFFICIENT: INSUFFICIENT: PREFFERED RANGE INTOXICATION: 1.Vitamin D compounds are de conversion of 7- dihydrochole 2.25-OHVitamin D represents tissue and tightly bound by a t	DIAGNOSTIC LAB /1, NICHOLSON ROAD, AME VITAMIN VITAMIN D3): SERUM IMMUNOASSAY)	REG. REG COLI REPO BALA CANTT Value VITTAM	DXY VITAMIN D: ng/mL	<b>3</b> DEFICIE INSUFFI SUFFICI	:38 PM :40PM
COLLECTED BY : REFERRED BY : BARCODE NO. : 01521 CLIENT CODE. : KOS D CLIENT ADDRESS : 6349/ Test Name //ITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE) //ITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE)	1211 DIAGNOSTIC LAB /1, NICHOLSON ROAD, AME VITAMIN VITAMIN D3): SERUM IMMUNOASSAY)	REG. REG: COLI REP BALA CANTT Value VITAMI N D/25 HYDR 10.513 <sup>L</sup>	NO./LAB NO. ISTRATION DATE LECTION DATE DRTING DATE Unit UNS DXY VITAMIN D: ng/mL	: 012411210040 : 21/Nov/2024 12 : 21/Nov/2024 12 : 21/Nov/2024 02 Biologic Biologic 3 DEFICIE INSUFFI SUFFICE TOXICIT g/mL	:38 PM :40PM :33PM al Reference interval NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
REFERRED BY : BARCODE NO. : 01521 CLIENT CODE. : KOS D CLIENT ADDRESS : 6349/ Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE) INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INTOXICATION: 1. Vitamin D compounds are do conversion of 7- dihydrocholer 2.25-OHVitamin D represents issue and tightly bound by a t	DIAGNOSTIC LAB /1, NICHOLSON ROAD, AME VITAMIN VITAMIN D3): SERUM IMMUNOASSAY)	REG COLI REP BALA CANTT Value VITAMI N D/25 HYDR 10.513 <sup>L</sup>	ISTRATION DATE LECTION DATE DRTING DATE Unit INS DXY VITAMIN D: ng/mL	: 21/Nov/2024 12 : 21/Nov/2024 12 : 21/Nov/2024 02 Biologic Biologic 3 DEFICIE INSUFFI SUFFICIE TOXICIT	:38 PM :40PM :33PM al Reference interval NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
BARCODE NO. : 01521 CLIENT CODE. : KOS D CLIENT ADDRESS : 6349/ Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE) INTERPRETATION: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INTOXICATION: 1.Vitamin D compounds are de conversion of 7- dihydrocholec 2.25-OHVitamin D represents tissue and tightly bound by a t	DIAGNOSTIC LAB /1, NICHOLSON ROAD, AME VITAMIN VITAMIN D3): SERUM IMMUNOASSAY)	COLI REP BALA CANTT Value VITAM N D/25 HYDR 10.513 <sup>L</sup>	LECTION DATE ORTING DATE Unit UNS OXY VITAMIN D: ng/mL	: 21/Nov/2024 12: : 21/Nov/2024 02: Biologic: 3 DEFICIE INSUFFI SUFFICIE TOXICIT g/mL	:40PM :33PM al Reference interval NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
CLIENT CODE. : KOS D CLIENT ADDRESS : 6349/ Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE ) INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INTOXICATION: 1. Vitamin D compounds are de conversion of 7- dihydrocholee 2.25-OHVitamin D represents issue and tightly bound by a t	DIAGNOSTIC LAB /1, NICHOLSON ROAD, AME VITAMIN VITAMIN D3): SERUM IMMUNOASSAY)	REP BALA CANTT Value VITAMI N D/25 HYDR 10.513 <sup>L</sup>	DRTING DATE Unit UNS DXY VITAMIN D: ng/mL	: 21/Nov/2024 02: Biologic 3 DEFICIE INSUFFI SUFFICI TOXICIT g/mL	:33PM al Reference interval NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
CLIENT ADDRESS : 6349/ Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE) INTERPRETATION: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INTOXICATION: 1. Vitamin D compounds are de conversion of 7- dihydrocholec 2.25-OHVitamin D represents tissue and tightly bound by a t	/1, NICHOLSON ROAD, AME VITAMI VITAMIN D3): SERUM IMMUNOASSAY)	BALA CANTT Value VITAMI N D/25 HYDR 10.513 <sup>L</sup>	Unit INS DXY VITAMIN D: ng/mL	Biologic 3 DEFICIE INSUFFI SUFFICI TOXICIT g/mL	<b>al Reference interval</b> NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE) INTERPRETATION: INSUFFICIENT: INSUFFICIENT: INSUFFICIENT: INTOXICATION: 1.Vitamin D compounds are de Conversion of 7- dihydrocholee 2.25-OHVitamin D represents tissue and tightly bound by a tightl	VITAMI VITAMIN D3): SERUM IMMUNOASSAY)	Value VITAMI N D/25 HYDR 10.513 <sup>L</sup> < 20 21 - 29	INS DXY VITAMIN D: ng/mL	3 DEFICIE INSUFFI SUFFICI TOXICIT g/mL	NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE ) INTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANGE INTOXICATION: 1. Vitamin D compounds are dé conversion of 7- dihydrocholet 2.25-OHVitamin D represents tissue and tightly bound by a t	VITAMIN D3): SERUM IMMUNOASSAY)	VITAM N D/25 HYDR 10.513 <sup>L</sup>	INS DXY VITAMIN D: ng/mL	3 DEFICIE INSUFFI SUFFICI TOXICIT g/mL	NCY: < 20.0 CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
by CLIA (CHEMILUMINESCENCE) INTERPRETATION: DEFICIENT: INSUFFICIENT: PREFFERED RANGE INTOXICATION: 1. Vitamin D compounds are de 2.25-OHVitamin D represents tissue and tightly bound by a t	VITAMIN D3): SERUM IMMUNOASSAY)	N D/25 HYDR 10.513 <sup>L</sup> < 20 21 - 29	DXY VITAMIN D: ng/mL	DEFICIE INSUFFI SUFFICI TOXICIT g/mL	CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
by CLIA (CHEMILUMINESCENCE) <u>INTERPRETATION:</u> DEFICIENT: INSUFFICIENT: PREFFERED RANGE INTOXICATION: I.Vitamin D compounds are de 2.25-OHVitamin D represents issue and tightly bound by a t	IMMUNOASSAÝ)	< 20 21 - 29	n	INSUFFI SUFFICI TOXICIT g/mL	CIENCY: 20.0 - 30.0 ENCY: 30.0 - 100.0
DEFICIENT: INSUFFICIENT: PREFFERED RANGE INTOXICATION: 1.Vitamin D compounds are de conversion of 7- dihydrocholer 2.25-OHVitamin D represents tissue and tightly bound by a t		21 - 29			
PREFFERED RANGE INTOXICATION: Vitamin D compounds are de onversion of 7- dihydrocholed 25-OHVitamin D represents issue and tightly bound by a t			ng	a/ml	
INTOXICATION: I.Vitamin D compounds are de conversion of 7- dihydrochole 2.25-OHVitamin D represents issue and tightly bound by a t	E: 3	30 - 100		0	
1.Vitamin D compounds are de conversion of 7- dihydrochole 2.25-OHVitamin D represents issue and tightly bound by a t		> 100		g/mL g/mL	
<ol> <li>Vitamin D plays a primary rephosphate reabsorption, skele 4.Severe deficiency may lead t DECREASED:</li> <li>Lack of sunshine exposure.</li> <li>Inadequate intake, malabsoi 3.Depressed Hepatic Vitamin I 4.Secondary to advanced Liver 5.Osteoporosis and Secondary 6.Enzyme Inducing drugs: anti-INCREASED:</li> <li>Hypervitaminosis D is Rare, severe hypercalcemia and hyp CAUTION: Replacement therap hypervitaminosis D</li> <li>NOTE:-Dark coloured individual interefere with Vitamin D absorp</li> </ol>	s the main body resevoir and transport protein while in ci- ole in the maintenance of ca etal calcium deposition, calc to failure to mineralize newl orption (celiac disease) D 25- hydroxylase activity r disease y Hyperparathroidism (Mild i-epileptic drugs like phenyto and is seen only after prolo perphophatemia. py in deficient individuals mu- ls as compare to whites, is at	d transport form o irculation. alcium homeostatic cium mobilization, dy formed osteoid to Moderate defic oin, phenobarbital onged exposure to a ust be monitored b	f Vitamin D and transp s. It promotes calciun mainly regulated by p in bone, resulting in r iency) and carbamazepine, i extremely high doses by periodic assessmen	n absorption, renal ca parathyroid harmone rickets in children and that increases Vitamin of Vitamin D. When it nt of Vitamin D levels i	n D metabolism. t occurs, it can result in n order to prevent





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







		nopraDr. Yugam Chopra& Microbiology)MD (Pathology)nsultant PathologistCEO & Consultant Pathologist				
IAME	: Mr. RAMESH KUMAR					
GE/ GENDER	: 42 YRS/MALE	PATI	: 1678029			
OLLECTED BY	•	REG.	NO./LAB NO.	: 012411210040		
EFERRED BY			STRATION DATE	: 21/Nov/2024 12:38 PM		
ARCODE NO.	: 01521211		ECTION DATE	: 21/Nov/2024 12:301M		
LIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 21/Nov/2024 02:36PM		
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT				
	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNO	Value VITAMIN B12/C 220.65 ASSAY)	Unit OBALAMIN pg/mL	<b>Biological Reference interval</b> 190.0 - 830		
/ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUNO	VITAMIN B12/C 220.65	<b>OBALAMIN</b> pg/mL	190.0 - 830		
/ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS	ESCENT MICROPARTICLE IMMUNO	VITAMIN B12/C 220.65 ASSAY)	OBALAMIN	190.0 - 830		
/ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 in C	VITAMIN B12/C 220.65 ASSAY)	<b>OBALAMIN</b> pg/mL	190.0 - 830 312		
/ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 in C ien	VITAMIN B12/C 220.65 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	OBALAMIN pg/mL DECREASED VITAMIN I rin, Anti-convulsants, ( tion	190.0 - 830 312		
VITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in	ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 in C jen in A ury	VITAMIN B12/C 220.65 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti	OBALAMIN pg/mL DECREASED VITAMIN I rin, Anti-convulsants, ( tion ve Harmones	190.0 - 830 312		
/ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 in C jen in A ury	VITAMIN B12/C 220.65 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	OBALAMIN pg/mL DECREASED VITAMIN I rin, Anti-convulsants, ( tion ve Harmones rsis	190.0 - 830 312		

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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







	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME : Mr. R	RAMESH KUMAR				
AGE/ GENDER : 42 YR	RS/MALE	РА	TIENT ID	: 1678029	
COLLECTED BY :		RE	G. NO./LAB NO.	: 012411210040	
<b>REFERRED BY</b> :		RE	GISTRATION DATE	: 21/Nov/2024 12:38 PM	
<b>BARCODE NO.</b> : 0152	1211	CO	LLECTION DATE	: 21/Nov/2024 12:40PM	
CLIENT CODE. : KOS I	DIAGNOSTIC LAB	RE	PORTING DATE	: 21/Nov/2024 12:51PM	
CLIENT ADDRESS : 6349	/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
restruine		Vulue	Cint		
		CLINICAL PA	THOLOGY		
	<b>URINE RO</b>	UTINE & MICRO	SCOPIC EXAMINA	ATION	
<b>PHYSICAL EXAMINATION</b>					
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	10	ml		
COLOUR		PALE YELLO	W	PALE YELLOW	
by DIP STICK/REFLECTANCE SF TRANSPARANCY by DIP STICK/REFLECTANCE SF		CLEAR		CLEAR	
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SF		1.02		1.002 - 1.030	
CHEMICAL EXAMINATION	N				
REACTION by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	ACIDIC			
PROTEIN by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
pH by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	<=5.0		5.0 - 7.5	
BILIRUBIN by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
NITRITE by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)	
UROBILINOGEN by DIP STICK/REFLECTANCE SF		Normal	EU/dL	0.2 - 1.0	
KETONE BODIES by DIP STICK/REFLECTANCE SF		Negative		NEGATIVE (-ve)	
BLOOD by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
ASCORBIC ACID by DIP STICK/REFLECTANCE SF	PECTROPHOTOMETRY	NEGATIVE (-	ve)	NEGATIVE (-ve)	
MICROSCOPIC EXAMINAT RED BLOOD CELLS (RBCs)		NEGATIVE (-	ve) /HPF	0 - 3	



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

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

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Page 20 of 21





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

MD (Pathology) CEO & Consultant Pathologist

Test Name		Value Unit	<b>Biological Reference interval</b>
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Nov/2024 12:51PM
BARCODE NO.	:01521211	COLLECTION DATE	: 21/Nov/2024 12:40PM
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 21/Nov/2024 12:38 PM
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012411210040
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1678029
NAME	: Mr. RAMESH KUMAR		

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

			8
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-3	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

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



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

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

