



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)	۲ ۲	am Chopra 1D (Pathology) ant Pathologist	
NAME	: Mr. RAM KARAN				
AGE/ GENDER	: 44 YRS/MALE		PATIENT ID	: 176380	7
COLLECTED BY	:		REG. NO./LAB NO.	:01250	2200022
REFERRED BY	:		REGISTRATION DATE	: 20/Feb.	/2025 10:23 AM
BARCODE NO.	:01525823		COLLECTION DATE		/2025 10:50AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBA		REPORTING DATE	: 20/Feb	/2025 11:12AM
CLIENT ADDRESS	. 0349/ I, NICHOLSON ROAD, AMDA	ALA CANTI			
Test Name		Value	Unit		Biological Reference interval
		HAEM	ATOLOGY		
	COMP		OOD COUNT (CBC)		
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB by CALORIMETRIC)	5.2 ^L	gm/dl	L	12.0 - 17.0
RED BLOOD CELL (R		1.9 ^L	Million	ns/cmm	3.50 - 5.00
PACKED CELL VOLU	CUSING, ELECTRICAL IMPEDENCE ME (PCV) ITOMATED HEMATOLOGY ANALYZER	16.4 ^L	%		40.0 - 54.0
MEAN CORPUSCULA		86.5	fL		80.0 - 100.0
	R HAEMOGLOBIN (MCH)	27.4	pg		27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC)	31.7 ^L	g/dL		32.0 - 36.0
	TION WIDTH (RDW-CV)	18.9 ^H	%		11.00 - 16.00
	TION WIDTH (RDW-SD)	60.9 ^H	fL		35.0 - 56.0
MENTZERS INDEX		45.53	RATIC)	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDI by calculated	ΞX	86.14	RATIC)	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL	LS (WBCS)				
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	4580	/cmm		4000 - 11000
NUCLEATED RED BI	LOOD CELLS (nRBCS)	NIL			0.00 - 20.00
	OOD CELLS (nRBCS) %	NIL	%		< 10 %



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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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

 www.koshealthcare.com
 www.koshealthcare.com

Page 1 of 22

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

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

NAME	: Mr. RAM KARAN		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 11:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	69	%	50 - 70
LYMPHOCYTES by flow cytometry by sf cube & microscopy	18 ^L	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	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	3160	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	824	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	183	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	412	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	229000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.23	%	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	59000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	25.9	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.7	%	15.0 - 17.0



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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PATIEN	ГID	: 1763807
COLLECTED BY	:	REG. NO	./LAB NO.	: 012502200022
REFERRED BY	:	REGIST	RATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823		ΓΙΟΝ DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 20/Feb/2025 04:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
	GLY(COSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAE	MOGLOBIN (HbA1c):	4.2	%	4.0 - 6.4
WHOLE BLOOD				
by HPLC (HIGH PERFORM	MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	73.84	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM		73.84	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM	E PLASMA GLUCOSE	73.84	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM NTERPRETATION:	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN	NOGLOGIB (HBAIC) ir	
by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN	//OGLOGIB (HBAIC) i i <5.7	
by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab At F	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.1	//OGLOGIB (HBAIC) i <5.7 7 – 6.4	
by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab At F	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.1	//OGLOGIB (HBAIC) i i <5.7	
by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM NTERPRETATION: RE Non diab At F	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: > Age >	//OGLOGIB (HBAIC) i <5.7 7 – 6.4 = 6.5 19 Years	n %
by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> <u>RE</u> <u>Non diab</u> At F Diag	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: > Age > Goals of Therapy:	AOGLOGIB (HBAIC) i <5.7 7 – 6.4 = 6.5 • 19 Years < 7.0	n%
by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab At F Diag	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: 	AOGLOGIB (HBAIC) in <5.7 7 - 6.4 = 6.5 19 Years <7.0 >8.0	n%
by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	ETES ASSOCIATION (ADA): GLYCOSYLATED HEN 5.: 	AOGLOGIB (HBAIC) i <5.7 7 – 6.4 = 6.5 • 19 Years < 7.0	n %

COMMENTS:

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

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

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

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

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

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





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

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

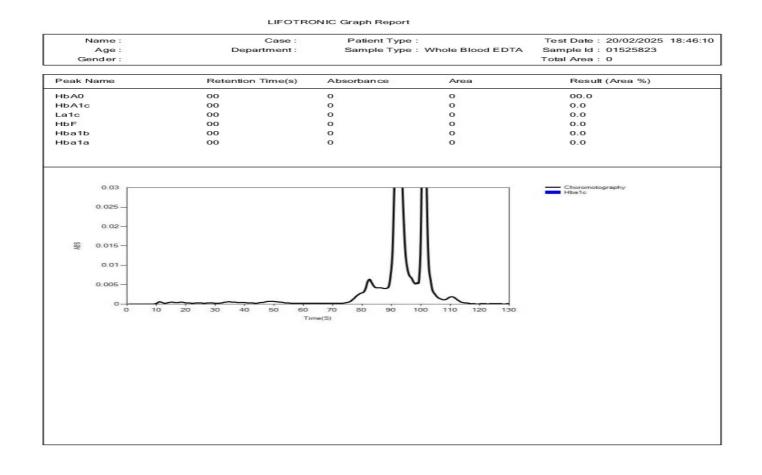
KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. RAM KARAN		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 04:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT	
Test Name		Value Unit	Biological Reference interval





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 Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mr. RAM KARAN

AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	:012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 12:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	

PERIPHERAL BLOOD SMEAR

TEST NAME:

PERIPHERAL BLOOD FILM/SMEAR (PBF)

RED BLOOD CELLS (RBC'S):

RBCs mostly appear normocytic & normochromic.Occ. polychromatic cells seen.No normoblastic activity noted.

WHITE BLOOD CELLS (WBC'S):

No immature leucocytes seen.

PLATELETS:

Platelets are adequate.

HEMOPARASITES:

NOT SEEN.

IMPRESSION:

Normocytic normochromic picture.





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

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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com



Page 5 of 22

NAME



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD	: Vinay Chopra (Pathology & Microbiology) airman & Consultant Pathologis		(Pathology)
NAME	: Mr. RAM KARA	N		
AGE/ GENDER	: 44 YRS/MALE		PATIENT ID	: 1763807
COLLECTED BY	:		REG. NO./LAB NO.	: 012502200022
REFERRED BY	:		REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	:01525823		COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOST		REPORTING DATE	: 20/Feb/2025 12:01PM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		RETICULO	OCYTE COUNT	
RETICULOCYTE CO	DUNT	2.4	%	0.5 - 2.5





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 Ch MD (Pathology & Chairman & Cor		Dr. Yugam (MD (P CEO & Consultant Pa	athology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PAT	IENT ID	: 1763807
COLLECTED BY	:	REG	. NO./LAB NO.	: 012502200022
REFERRED BY	:	REG	ISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	:01525823	COL	LECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 20/Feb/2025 01:41PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINIC	CAL CHEMISTRY	/BIOCHEMISTR	Y
	GLUCOSE	FASTING (F) AND	POST PRANDIAL	(PP)
GLUCOSE FASTING by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-POD)	99.33	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
	ANDIAL (PP): PLASMA e - peroxidase (god-pod)	168.02 ^H	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0

INTERPRETATION:

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A fasting plasma glucose below 100 mg/dL and post-prandial plasma glucose level below 140 mg/dl is considered normal.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

2. A fasting plasma glucose level between 100 - 125 mg/dl and post-prandial plasma glucose level between 140 – 200 mg/dL is considered as glucose intolerant or pre diabetic. 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 and post-prandial plasma glucose level 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.





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

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

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

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

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PAT	FIENT ID	: 1763807
COLLECTED BY	:	REG	G. NO./LAB NO.	: 012502200022
REFERRED BY	:	REG	GISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COL	LECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		128.25	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	97.21	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO	L (DIRECT): SERUM	37.06	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		71.75	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLEST by calculated, spe		91.19	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		19.44	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	353.71	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	DL RATIO: SERUM	3.46	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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

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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)		(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE		PATIENT ID	: 1763807
COLLECTED BY	:		REG. NO./LAB NO.	: 012502200022
REFERRED BY	:		REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823		COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.94	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		2.62 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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





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







(A Unit of KOS Healthcare)	EXCELLENCE IN HEALT	HCARE & DIAGNOSTICS
Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		gam Chopra MD (Pathology) tant Pathologist
ARAN		
-		

NAME	: Mr. RAM KARAN		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.44	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	10.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	13.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.74	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	161 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	13.54	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.29	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.17	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.12 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.97	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:

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





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 Chopra MD (Pathology & Microbiol Chairman & Consultant Patl		(Pathology)
NAME	: Mr. RAM KARAN		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA (CANTT	
Test Name	Valu	ue 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



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 Cho j MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD (CEO & Consultant F	Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PATIE	ENT ID	: 1763807
COLLECTED BY	:	REG. N	NO./LAB NO.	: 012502200022
REFERRED BY	:	REGIS	TRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	:01525823	COLLI	ECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Feb/2025 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNF	Y FUNCTION TE	ST (COMPLETE)	
UREA: SERUM		206.04 ^H	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	MATE DEHYDROGENASE (GLDH)			
CREATININE: SERI		9.34 ^H	mg/dL	0.40 - 1.40
BLOOD UREA NITE	ROGEN (BUN): SERUM	96.28 ^H	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	10.31		10.0 - 20.0
RATIO: SERUM	ROGEN (BUN)/CREATININE	10.31	RATIO	10.0 - 20.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM ECTROPHOTOMETRY	22.06	RATIO	
URIC ACID: SERUM		8.27 ^H	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE			0.50, 10.00
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	8.45 ^L	mg/dL	8.50 - 10.60
PHOSPHOROUS: SH	ERUM	4.93 ^H	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
<u>ELECTROLITES</u> SODIUM: SERUM		139.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	139.2	mmoi/ L	135.0 - 150.0
POTASSIUM: SERU		6.02 ^H	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM		104.4	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV		101.1		00.0 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	6.5		
NOTE 2		RESULT RECHE	CKED TWICE	
				_

ADVICE

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



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

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

KINDLY CORRELATE CLINICALLY

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant		Dr. \ CEO & Cor		thology)			
AME	: Mr. RAM K	ARAN							
GE/ GENDER	: 44 YRS/MA	LE	PA	TIENT ID		: 1763807			
COLLECTED BY			DE	G. NO./LAB NO.		: 012502200(199		
	•							4	
EFERRED BY	:			GISTRATION D		: 20/Feb/2025			
BARCODE NO.	:01525823			LLECTION DAT		: 20/Feb/2025			
CLIENT CODE.	: KOS DIAGN	OSTIC LAB	RE	PORTING DATI	Е	: 20/Feb/2025	01:08PM		
LIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMBA	LA CANTT						
Fest Name			Value	Un	it	Biolo	gical Re	ference i	nterval
ourns, surgery, cache 2. Urine reabsorption 3. Reduced muscle n	xia, high fever) (e.g. ureter co ass (subnorma	lostomy) I creatinine production)	e.g. mection,	Gi bleeding, triy		, cushing s syn	urome, n		n diet,
Aurns, surgery, cache Curine reabsorption Reduced muscle n Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (< Acute tubular nect Composition diet a Severe liver diseas Cother causes of de Repeated dialysis NAPPROPIATE ARTIO (< Phenacimide thera Rhabdomyolysis (i Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an ir CED STAGE STIMATED GLOMERI CKD STAGE G1	xia, high fever) (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELEN (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. creased urea s urea rather th monemias (urea f inappropiate who develop r : sis (acetoaceta creased BUN/c apy (interferes JLAR FILTERATI	I. Iostomy) I creatinine production) Iucocorticoids) /ATED CREATININE LEVEL proportionately more th on renal disease. REASED BUN : ynthesis. an creatinine diffuses out a sourceatinine diffuses out a sourceatinine diffuses out antidiuretic harmone) do REASED CREATININE: s conversion of creatine e creatinine). enal failure. Atte causes false increase areatinine ratio). with creatinine measure DESCRIPTION ormal kidney function	S: han creatinine) ut of extracellu blood). lue to tubular to creatinine). in creatinine ement). GFR (mL/n	(e.g. obstructive lar fluid). secretion of urea with certain met nin/1.73m2)	e uropathy a. hodologie). s,resulting in ne :IATED FINDING o proteinuria	ormal rat		
urns, surgery, cache . Urine reabsorptior . Reduced muscle n . Certain drugs (e.g. NCREASED RATIO (>2 . Postrenal azotemia DECREASED RATIO (< . Acute tubular nect . Low protein diet a . Severe liver diseas . Other causes of de . Repeated dialysis . Inherited hyperam . SIADH (syndrome . Pregnancy. DECREASED RATIO (< . Phenacimide thera . Rhabdomyolysis (i . Muscular patients NAPPROPIATE RATIO . Diabetic ketoacido hould produce an ir . Cephalosporin the <u>STIMATED GLOMER</u>	xia, high fever) (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELEN (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. E. creased urea s urea rather th monemias (urea of inappropiate (0:1) WITH INC py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes ULAR FILTERATI	I. Iostomy) I creatinine production) Iucocorticoids) /ATED CREATININE LEVEL proportionately more th on renal disease. REASED BUN : ynthesis. an creatinine diffuses out a is virtually absent in th antidiuretic harmone) of REASED CREATININE: s conversion of creatine e creatinine). enal failure. Atte causes false increase creatinine ratio). with creatinine measure DESCRIPTION ormal kidney function (idney damage with	S: han creatinine) ut of extracellu blood). lue to tubular to creatinine). in creatinine ement). GFR (mL/n	(e.g. obstructive lar fluid). secretion of urea with certain met	e uropathy a. hodologie No Prese). s,resulting in ne :IATED FINDING o proteinuria ence of Protein	ormal rat		
Aurns, surgery, cache Curine reabsorption Reduced muscle n Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (< Acute tubular nect Composition diet a Severe liver diseas Cother causes of de Repeated dialysis NAPPROPIATE ARTIO (< Phenacimide thera Rhabdomyolysis (i Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an ir CED STAGE STIMATED GLOMERI CKD STAGE G1	xia, high fever) (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELEN (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. E. creased urea s urea rather th monemias (urea of inappropiate (0:1) WITH INC py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes UAR FILTERATI	I. Iostomy) I creatinine production) Iucocorticoids) /ATED CREATININE LEVEL proportionately more th on renal disease. REASED BUN : ynthesis. an creatinine diffuses out a sourceatinine diffuses out a sourceatinine diffuses out antidiuretic harmone) do REASED CREATININE: s conversion of creatine e creatinine). enal failure. Atte causes false increase areatinine ratio). with creatinine measure DESCRIPTION ormal kidney function	S: han creatinine) ut of extracellu- blood). lue to tubular to creatinine). in creatinine ement). GFR (mL/i	(e.g. obstructive lar fluid). secretion of urea with certain met nin/1.73m2)	e uropathy a. hodologie No Prese). s,resulting in ne :IATED FINDING o proteinuria	ormal rat		
Aurns, surgery, cache Urine reabsorptior Reduced muscle n Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (< Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome Pregnancy. DECREASED RATIO (< Phenacimide thera Rabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an ir Cephalosporin the <u>STIMATED GLOMER</u> G1 G2	xia, high fever) (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELEN (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. E. creased urea s urea rather th monemias (urea f inappropiate who develop r : sis (acetoaceta creased BUN/c apy (interferes ULAR FILTERATI	I. Iostomy) I creatinine production) Iucocorticoids) /ATED CREATININE LEVEL proportionately more th on renal disease. REASED BUN : ynthesis. an creatinine diffuses out a creatinine diffuses out a is virtually absent in th antidiuretic harmone) of REASED CREATININE: s conversion of creatine a creatinine). enal failure. Atte causes false increase areatinine ratio). with creatinine measure DESCRIPTION ormal kidney function Kidney damage with normal or high GFR	S: han creatinine) ut of extracellu blood). lue to tubular to creatinine). in creatinine ement). GFR (mL/i 6	(e.g. obstructive lar fluid). secretion of urea with certain met <u>nin/1.73m2)</u> >90	e uropathy a. hodologie No Prese). s,resulting in ne :IATED FINDING o proteinuria ence of Protein	ormal rat		
ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle n 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (>2 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 5. Inherited hyperam 7. SIADH (syndrome 8. Pregnancy. DECREASED RATIO (>2 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an ir 2. Cephalosporin the ESTIMATED GLOMER G1 G2 G3a	xia, high fever) (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELEN (BUN rises dis superimposed 0:1) WITH DEC osis. Ind starvation. E. creased urea s urea rather th monemias (urea f inappropiate (0:1) WITH INCI py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes ULAR FILTERATI) No No No No No	I. Iostomy) I creatinine production) Iucocorticoids) /ATED CREATININE LEVEL proportionately more th on renal disease. REASED BUN : ynthesis. an creatinine diffuses out a creatinine diffuses out a is virtually absent in th antidiuretic harmone) of REASED CREATININE: s conversion of creatine a creatinine). enal failure. Atte causes false increase areatinine ratio). with creatinine measure DESCRIPTION ormal kidney function (idney damage with normal or high GFR <u>/</u> ild decrease in GFR	S: han creatinine) ut of extracellu- blood). lue to tubular to creatinine). in creatinine ement). GFR (mL/i 60 3 1	(e.g. obstructive lar fluid). secretion of urea with certain met <u>nin/1.73m2)</u> >90 >90	e uropathy a. hodologie No Prese). s,resulting in ne :IATED FINDING o proteinuria ence of Protein	ormal rat		





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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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

 www.koshealthcare.com
 www.koshealthcare.com





	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)
NAME	: Mr. RAM KARAN		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	JTT	
Test Name	Value	Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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







%

mg/dL

15.0 - 50.0

200.0 - 350.0

	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	P	ATIENT ID	: 1763807
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012502200022
REFERRED BY	:	R	EGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	C	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 20/Feb/2025 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON P	ROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	190.32 ^H	μg/dL	59.0 - 158.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	8.18 ^L	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	ING CAPACITY (TIBC)	198.5 ^L	µg/dL	230 - 430

TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)

%TRANSFERRIN SATURATION: SERUM

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

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			

95.88^H

140.94^L

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.



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Patholo	1	am Chopra 1D (Pathology) ant Pathologist	
NAME	: Mr. RAM KARAN				
AGE/ GENDER	: 44 YRS/MALE		PATIENT ID	: 1763807	
COLLECTED BY	:		REG. NO./LAB NO.	:012502200022	
REFERRED BY	:		REGISTRATION DATE	E : 20/Feb/2025 10:23 AM	
BARCODE NO.	:01525823		COLLECTION DATE	: 20/Feb/2025 10:50AM	
CLIENT CODE.	: KOS DIAGNOSTIC L	AB	REPORTING DATE	: 20/Feb/2025 12:24PM	
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CAN	ТТ		
Test Name		Value	Unit	Biological Refe	erence interval
		ENDO	CRINOLOGY		
		THYROID FUR	NCTION TEST: TOTA	L	
TRIIODOTHYRONII	NE (T3): SERUM	0.863	ng/m	L 0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle	7.26	μgm/	dL 4.87 - 12.60	
	TING HORMONE (TS		µIU/n	nL 0.35 - 5.50	
3rd GENERATION, ULT. INTERPRETATION:	RASENSITIVE				
day has influence on the l	measured serum TSH concen lure at any level of regulatic	<i>,</i> <i>trations</i> . TSH stimulates the	production and secretion of th	0 pm. The variation is of the order of a emetabolically active hormones, thy ither underproduction (hypothyroidi	roxine (T4)and
CLINICAL CONDITION		Т3	T4	TSH]
Primary Hypothyroidisi Subclinical Hypothyroid		Reduced	Reduced Normal or Low Normal	Increased (Significantly)	4
Subclinical Hypothyrol		mal or Low Normal	Normal of Low Normal	High	

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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

Increased

Normal or High Normal

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	
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)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. RAM KARAN		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1763807
COLLECTED BY	:	REG. NO./LAB NO.	: 012502200022
REFERRED BY	:	REGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ΓT	

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

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8. Pregnancy: 1st and 2nd Trimester





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

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







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	licrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PAT	TIENT ID	: 1763807
COLLECTED BY	:	REC	G. NO./LAB NO.	: 012502200022
REFERRED BY	:	REG	GISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	:01525823	COI	LECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

Intrepretation:-

Parathyroid hormone (PTH) is produced and secreted by the parathyroid glands, which are located along the posterior aspect of the thyroid gland. The serum calcium level regulates PTH secretion via negative feedback through the parathyroid calcium sensing receptor (CASR). Decreased calcium levels stimulate PTH release. Secreted PTH interacts with its specific type II G-protein receptor, causing rapid increases in renal tubular reabsorption of calcium and decreased phosphorus reabsorption. It also participates in long-term calciostatic functions by enhancing mobilization of calcium from bone and increasing renal synthesis of 1,25-dihydroxy vitamin D, which, in turn, increases intestinal calcium absorption. The assay is useful for:

- Differential diagnosis of hypercalcemia
- Diagnosis of primary, secondary, and tertiary hyperparathyroidism
- Diagnosis of hypoparathyroidism
- Monitoring end-stage renal failure patients for possible renal osteodystrophy

Interpretation of results:

- An (appropriately) low PTH level and high phosphorus level in a hypercalcemic patient suggests that the hypercalcemia is not caused by PTH or PTH-like substances.
- An (appropriately) low PTH level with a low phosphorus level in a hypercalcemic patient suggests the diagnosis of paraneoplastic hypercalcemia.
- A low or normal PTH in a patient with hypocalcemia suggests hypoparathyroidism.

Low serum calcium and high PTH levels in a patient with normal renal function suggest resistance to PTH action (pseudohypoparathyroidism type 1a, 1b, 1c, or 2) or, very rarely, bio-ineffective PTH.

Elevated PTH value with a normal serum calcium in many cases in India is due to secondary hyperparathyroidism, primary cause being Vitamin D deficiency.





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

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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com







		v & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PA	ATIENT ID	: 1763807
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012502200022
REFERRED BY	:	R	EGISTRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	CO	DLLECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			OGY/SEROLOGY	
HEPATITIS C ANTI		TTIS C VIRUS (HO	LOGY/SEROLOGY CV) ANTIBODY: TO S/CO	
by CMIA (CHEMILUMI	HEPAT BODY (HCV) TOTAL: SERUM	TTTIS C VIRUS (HO I 0.06 DASSAY)	CV) ANTIBODY: TO S/CO	DTAL
by CMIA (CHEMILUMII HEPATITIS C ANTI	HEPAT BODY (HCV) TOTAL: SERUM	TITIS C VIRUS (HO 1 0.06	CV) ANTIBODY: TO S/CO	DTAL NEGATIVE: < 1.00
by CMIA (CHEMILUMII HEPATITIS C ANTI RESULT	HEPAT BODY (HCV) TOTAL: SERUM	TTTIS C VIRUS (HO DASSAY) NON - REAC	CV) ANTIBODY: TO S/CO	DTAL NEGATIVE: < 1.00
by CMIA (CHEMILUMII HEPATITIS C ANTI RESULT by CMIA (CHEMILUMII INTERPRETATION:-	HEPAT BODY (HCV) TOTAL: SERUN VESCENT MICROPARTICLE IMMUNC BODY (HCV) TOTAL	TTTIS C VIRUS (HO DASSAY) NON - REAC	CV) ANTIBODY: TO S/CO CTIVE	DTAL NEGATIVE: < 1.00
by CMIA (CHEMILUMII HEPATITIS C ANTI RESULT by CMIA (CHEMILUMII INTERPRETATION:-	HEPAT BODY (HCV) TOTAL: SERUN VESCENT MICROPARTICLE IMMUNC BODY (HCV) TOTAL VESCENT MICROPARTICLE IMMUNC ESULT (INDEX)	TTTIS C VIRUS (HO 0.06 DASSAY) NON - REAC	CV) ANTIBODY: TO S/CO CTIVE REMARKS	DTAL NEGATIVE: < 1.00 POSITIVE: > 1.00
by CMIA (CHEMILUMII HEPATITIS C ANTI RESULT by CMIA (CHEMILUMII INTERPRETATION:-	HEPAT BODY (HCV) TOTAL: SERUN VESCENT MICROPARTICLE IMMUNC BODY (HCV) TOTAL	TTTIS C VIRUS (HO DASSAY) NON - REAC	CV) ANTIBODY: TO S/CO CTIVE	DTAL NEGATIVE: < 1.00 POSITIVE: > 1.00

2. Routine screening of low and high prevelance population including blood donors.

NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

3. HCV-RNA PCR recommended in all reactive results to differentiate between past and present infection.





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

Page 19 of 22





	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. RAM KARAN			
AGE/ GENDER	: 44 YRS/MALE	PATI	ENT ID	: 1763807
COLLECTED BY	:	REG.	NO./LAB NO.	: 012502200022
REFERRED BY	:	REGI	STRATION DATE	: 20/Feb/2025 10:23 AM
BARCODE NO.	: 01525823	COLL	ECTION DATE	: 20/Feb/2025 10:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Feb/2025 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	MAN IMMUNODEFICIENC			Biological Reference interval H (P-24 ANTIGEN DETECTION)
ANTI HUI HIV 1/2 AND P24		Y VIRUS (HIV) DU 0.11		
ANTI HUI HIV 1/2 AND P24 <i>I</i> by CMIA (CHEMILUMIN HIV 1/2 AND P24 <i>I</i> by CMIA (CHEMILUMIN	ANTIGEN: SERUM	Y VIRUS (HIV) DU 0.11 SSAY) NON - REACTIV	O ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00
ANTI HUI HIV 1/2 AND P24 A by CMIA (CHEMILUMIN HIV 1/2 AND P24 A by CMIA (CHEMILUMIN INTERPRETATION:-	ANTIGEN: SERUM iescent microparticle immunoas ANTIGEN RESULT	Y VIRUS (HIV) DU 0.11 SSAY) NON - REACTIV	O ULTRA WITH S/CO	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00
ANTI HUI HIV 1/2 AND P24 <i>J</i> by CMIA (CHEMILUMIN HIV 1/2 AND P24 <i>J</i> by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> RESUI	ANTIGEN: SERUM IESCENT MICROPARTICLE IMMUNOAS ANTIGEN RESULT IESCENT MICROPARTICLE IMMUNOAS	Y VIRUS (HIV) DU 0.11 SSAY) NON - REACTIV	O ULTRA WITH S/CO ⁷ E	I (P-24 ANTIGEN DETECTION) NEGATIVE: < 1.00

exposed to HIV 1/2 infection or the sample has been tested during the "window phase" i.e. before the development of detectable levels of antibodies. Hence a Non Reactive result does not exclude the possibility of exposure or infection with HIV 1/2. **RECOMMENDATIONS:** 1. Results to be clinically correlated

2. Rarely falsenegativity/positivity may occur.



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 Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)		
NAME	: Mr. RAM KARAN					
AGE/ GENDER	: 44 YRS/MALE	PATI	ENT ID	: 1763807		
COLLECTED BY	:	REG. NO./LAB NO.		: 012502200022		
REFERRED BY	:	REGISTRATION DATE		: 20/Feb/2025 10:23 AM		
BARCODE NO.	: 01525823	COLL	ECTION DATE	: 20/Feb/2025 10:50AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	OSTIC LAB REPORTING DATE		: 20/Feb/2025 12:24PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval		
	HEPATITIS	S B SURFACE ANT	IGEN (HBsAg) I	ULTRA		
HEPATITIS B SURI SERUM	HEPATITIS FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOAS	0.18	IGEN (HBsAg) I S/CO	U LTRA NEGATIVE: < 1.0 POSITIVE: > 1.0		
HEPATITIS B SURF SERUM by CMIA (CHEMILUMII HEPATITIS B SURF RESULT	FACE ANTIGEN (HBsAg):	0.18 SAY) NON REACTIVE	s/co	NEGATIVE: < 1.0		
HEPATITIS B SURF SERUM by CMIA (CHEMILUMII HEPATITIS B SURF RESULT by CMIA (CHEMILUMII INTERPRETATION:	FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOAS FACE ANTIGEN (HBsAg) NESCENT MICROPARTICLE IMMUNOAS	0.18 SAY) NON REACTIVE	S/CO	NEGATIVE: < 1.0		
HEPATITIS B SURF SERUM by CMIA (CHEMILUMII HEPATITIS B SURF RESULT by CMIA (CHEMILUMII <u>INTERPRETATION:</u> RESU	FACE ANTIGEN (HBsAg): NESCENT MICROPARTICLE IMMUNOAS FACE ANTIGEN (HBsAg)	0.18 SAY) NON REACTIVE	s/co	NEGATIVE: < 1.0		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.





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.



	MD (Pa	inay Chopra athology & Microbiology) aan & Consultant Pathologist		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. RAM KARAN : 44 YRS/MALE : : : 01525823 : KOS DIAGNOSTIC L : 6349/1, NICHOLSO		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1763807 : 012502200022 : 20/Feb/2025 10:23 AM : 20/Feb/2025 10:50AM : 20/Feb/2025 12:24PM
Test Name		Value	Unit	Biological Reference interval
			AMINS 'DROXY VITAMIN D	9
	DROXY VITAMIN D3) SCENCE IMMUNOASSAY	: SERUM 23.8^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION: DEFIC	IENT:	< 20	r	ng/mL
INSUFF PREFFERE	ICIENT:	21 - 29 30 - 100		ig/mL ig/mL
conversion of 7- dihyc 2.25-OHVitamin D re tissue and tightly bou 3.Vitamin D plays a pr phosphate reabsorpti 4.Severe deficiency m DECREASED: 1.Lack of sunshine exr 2.Inadequate intake, f 3.Depressed Hepatic V 4.Secondary to advance 5.Osteoporosis and Se 6.Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D	Arocholecalciferol to V appresents the main boo rimary role in the main on, skeletal calcium de ay lead to failure to m bosure. Malabsorption (celiac /itamin D 25- hydroxy ced Liver disease econdary Hyperparath ugs: anti-epileptic drug is Rare, and is seen of	itamin D3 in the skin upon dy resevoir and transport fo ein while in circulation. ntenance of calcium homeo eposition, calcium mobilizat ineralize newly formed oste disease) lase activity roidism (Mild to Moderate gs like phenytoin, phenobar nly after prolonged exposur	Ultraviolet exposure. rm of Vitamin D and trans estatis. It promotes calciun tion, mainly regulated by eoid in bone, resulting in deficiency) bital and carbamazepine,	Decalciferol (from animals, Vitamin D3), or by sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in
hypervitaminosis D	nt therapy in deficient	individuals must be monito		nt of Vitamin D levels in order to prevent ciency due to excess of melanin pigment which
interefere with Vitamir		*** End Of Re		

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

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST

0%*5#

5

