



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. VARSHA MALHOTRA			
AGE/ GENDER	: 52 YRS/FEMALE		PATIENT ID	: 1067055
COLLECTED BY	:		REG. NO./LAB NO.	: 012410100007
REFERRED BY	:		REGISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	:01518621		COLLECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB		REPORTING DATE	: 10/Oct/2024 08:37AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: GT	
	CON	APLETE BLC	OOD COUNT (CBC)	
<u>RED BLOOD CELL</u> S (R	BCS) COUNT AND INDICES		(),	
HAEMOGLOBIN (HB)		9.5 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB	C) COUNT DCUSING, ELECTRICAL IMPEDENCE	4.65	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUN		32.2 ^L	%	37.0 - 50.0
MEAN CORPUSCULA		69.2 ^L	fL	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	19.8 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	28.6 ^L	g/dL	32.0 - 36.0
	ION WIDTH (RDW-CV) utomated hematology analyzer	17.4 ^H	%	11.00 - 16.00
	ON WIDTH (RDW-SD)	44.9	fL	35.0 - 56.0
MENTZERS INDEX		14.88	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	25.1	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			
TOTAL LEUCOCYTE C	DUNT (TLC) ′ by sf cube & microscopy	11290 ^H	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
	BY SF CUBE & MICROSCOPY	57	%	50 - 70



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

Page 1 of 15

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Chopra



Dr. Yugam Chopra

	MD (Pathology & Mid Chairman & Consulta		MD CEO & Consultant	(Pathology) Pathologist
NAME	: Mrs. VARSHA MALHOTRA			
AGE/ GENDER	: 52 YRS/FEMALE	PA	FIENT ID	: 1067055
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012410100007
REFERRED BY	:	RE	GISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	:01518621	CO	LLECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 10/Oct/2024 08:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		34	%	20 - 40
	Y BY SF CUBE & MICROSCOPY		04	
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES		5	%	2 - 12
	Y BY SF CUBE & MICROSCOPY			
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOC				
ABSOLUTE NEUTRO	PHIL COUNT	6435	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY			
	CYTE COUNT Y BY SF CUBE & MICROSCOPY	3839	/cmm	800 - 4900
ABSOLUTE EOSINOF		452 ^H	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY			00,000
ABSOLUTE MONOCY	Y TE COUNT Y BY SF CUBE & MICROSCOPY	564	/cmm	80 - 880
ABSOLUTE BASOPHI		0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY			
	HER PLATELET PREDICTIVE MARKER	_		
PLATELET COUNT (P	LT) FOCUSING, ELECTRICAL IMPEDENCE	594000 ^H	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.59 ^H	%	0.10 - 0.36
MEAN PLATELET VO		10	fL	6.50 - 12.0
PLATELET LARGE CE		148000 ^H	/cmm	30000 - 90000
PLATELET LARGE CE		23.9	%	11.0 - 45.0
PLATELET DISTRIBU	TION WIDTH (PDW)	15.8	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	JCTED ON EDTA WHOLE BLOOD			

RECHECKED



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







	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. VARSHA MALHOTRA			
AGE/ GENDER	: 52 YRS/FEMALE	PATI	ENT ID	: 1067055
COLLECTED BY	:	REG.	NO./LAB NO.	: 012410100007
REFERRED BY	:	REGI	STRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	:01518621	COLL	ECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPC	DRTING DATE	: 10/Oct/2024 03:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLYCO	SYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEI WHOLE BLOOD	MOGLOBIN (HbA1c):	7.3 ^H	%	4.0 - 6.4
by HPLC (HIGH PERFC ESTIMATED AVERAG by HPLC (HIGH PERFC	ORMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ORMANCE LIQUID CHROMATOGRAPHY)	162.81 ^H	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFC ESTIMATED AVERAG by HPLC (HIGH PERFC	E PLASMA GLUCOSE			60.00 - 140.00
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	ABETES ASSOCIATION		
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years	ABETES ASSOCIATION	(ADA): /LATED HEMOGLOGIB <5.7	
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	ABETES ASSOCIATION	(ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4	
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years	ABETES ASSOCIATION	(ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	ABETES ASSOCIATION GLYCOSY	(ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	(HBAIC) in %
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	ABETES ASSOCIATION GLYCOSY Goals of The	(ADA): /LATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years erapy:	(HBAIC) in %
by HPLC (HIGH PERFC ESTIMATED AVERAG by HPLC (HIGH PERFC INTERPRETATION:	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	ABETES ASSOCIATION GLYCOSY	(ADA): /LATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years erapy:	(HBAIC) in %

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 appropiate.

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mrs. VARSHA MALHOTRA				
AGE/ GENDER	: 52 YRS/FEMALE	PA	FIENT ID	: 1067055	
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012410100007	
REFERRED BY	:	RE	GISTRATION DATE	: 10/Oct/2024 08:05 AM	
BARCODE NO.	:01518621	CO	LLECTION DATE	: 10/Oct/2024 08:08AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 10/Oct/2024 09:01AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	ERYT	HROCYTE SEDIME	NTATION RATE (ES	R)	
	VIENTATION RATE (ESR)	30 ^H	mm/1st h	nr 0 - 20	
INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOV A low ESR can be see	does not tell the health practit cted by other conditions beside be used to monitor disease act ematosus W ESR n with conditions that inhibit th	ult often indicates the ioner exactly where the es inflammation. For th ivity and response to the he normal sedimentation	e inflammation is in the is reason, the ESR is typ nerapy in both of the a on of red blood cells, si	ion associated with infection, cancer and auto e body or what is causing it. bically used in conjunction with other test suc bove diseases as well as some others, such as uch as a high red blood cell count	h
(polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected	ificantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both marke s not change as rapidly as does by as many other factors as is F ed, it is typically a result of two	count (leucocytosis) , a ESR. crs of inflammation. cRP, either at the star CRP, making it a better (nd some protein abno t of inflammation or as narker of inflammatior	rmalities. Šome changes in red cell shape (suc	:h

5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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

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



Page 4 of 15





	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. VARSHA MALHOTRA			
AGE/ GENDER	: 52 YRS/FEMALE	PAT	IENT ID	: 1067055
COLLECTED BY	:	REG	. NO./LAB NO.	: 012410100007
REFERRED BY	:	REG	ISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	: 01518621	COL	LECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 10/Oct/2024 10:06AM
	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	Unit	Biological Reference interval
CLIENT ADDRESS				
CLIENT ADDRESS		Value	/BIOCHEMISTR	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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

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

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



Page 5 of 15





Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME: Mrs. VARSHA MALHOTRAAGE/ GENDER: 52 YRS/FEMALECOLLECTED BY: .REFERRED BY: .BARCODE NO.: 01518621CLIENT CODE.: KOS DIAGNOSTIC LABCLIENT ADDRESS: 6349/1, NICHOLSON ROAD,	RI RI CC RI	ATIENT ID EG. NO./LAB NO. EGISTRATION DATE DLLECTION DATE EPORTING DATE	: 1067055 : 012410100007 : 10/Oct/2024 08:05 AM : 10/Oct/2024 08:08AM : 10/Oct/2024 11:23AM
Test Name	Value	Unit	Biological Reference interval
	LIPID PROF	ILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	140.99	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)	240.67 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION	46.86	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	46	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	94.13	mg/dL	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 CHOLESTEROL: SERUM by calculated, spectrophotometry	48.13 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM	522.65	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.01	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.98	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	Gen	ofra	

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

7

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. VARSHA MALHOTRA			
AGE/ GENDER	: 52 YRS/FEMALE	PATIE	INT ID	: 1067055
COLLECTED BY	:	REG. N	IO./LAB NO.	: 012410100007
REFERRED BY	:	REGIS	TRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	:01518621	COLLI	ECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	5.14 ^H	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







Dr. Vinay Chopra

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

NAME	: Mrs. VARSHA MALHOTRA		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1067055
COLLECTED BY	:	REG. NO./LAB NO.	: 012410100007
REFERRED BY	:	REGISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	: 01518621	COLLECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	

Test Name	Value	Unit	Biological Reference interval
L	IVER FUNCTION TE	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.17	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.04	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.13	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	17.5	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METH PROPANOL	82.46 YL	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	20.8	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.12 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	3.9	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.22 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.76	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)





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 O & Consultant	(Pathology)
NAME	: Mrs. VARSHA MALHOTRA			
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT	D	: 1067055
COLLECTED BY	:	REG. NO./	LAB NO.	: 012410100007
REFERRED BY	:	REGISTRA	TION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	:01518621	COLLECTI	ON DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA 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
	1.2 1.0



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





Dr. Vinay Chopra

MD (Pathology & Microbiology)



Dr. Yugam Chopra

MD (Pathology)

	Chairman & Cons	sultant Pathologist	CEO & Consultant I	Pathologist
NAME : N	Irs. VARSHA MALHOTRA			
AGE/ GENDER : 5	2 YRS/FEMALE	PA	TIENT ID	: 1067055
COLLECTED BY :		RE	G. NO./LAB NO.	: 012410100007
REFERRED BY :		RE	GISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO. : 0	1518621	CO	LLECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE. : K	OS DIAGNOSTIC LAB	RE	PORTING DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS : 6	349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	КІГ	ONEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		16.22	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE	DEHYDROGENASE (GLDH)	10.22	ing/uL	10.00 - 30.00
CREATININE: SERUM		0.76	mg/dL	0.40 - 1.20
by ENZYMATIC, SPECTROF BLOOD UREA NITROGEN		7.58	ma (di	7.0 - 25.0
by CALCULATED, SPECTRO		7.58	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN	(BUN)/CREATININE	9.97 ^L	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPECTR	ODUOTOMETRY			
UREA/CREATININE RATIO		21.34	RATIO	
by CALCULATED, SPECTR				
URIC ACID: SERUM		6.04	mg/dL	2.50 - 6.80
by URICASE - OXIDASE PER CALCIUM: SERUM	ROXIDASE	8.81	mg/dL	8.50 - 10.60
by ARSENAZO III, SPECTRO	OPHOTOMETRY	0.01	ing/ dL	0.00 10.00
PHOSPHOROUS: SERUM		4.15	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBDATE, ELECTROLYTES	SPECTROPHOTOMETRY			
		120.0	mmal/l	125.0 150.0
SODIUM: SERUM by ISE (ION SELECTIVE ELI	ECTRODE)	139.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.35	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELI	ECTRODE)	101.05		00.0.110.0
CHLORIDE: SERUM by ISE (ION SELECTIVE ELI	ECTRODE)	104.85	mmol/L	90.0 - 110.0
ESTIMATED GLOMERUL	,			
ESTIMATED GLOMERULA (eGFR): SERUM by CALCULATED		94.2		
INTERPRETATION				

INTERPRETATION: To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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 Chop MD (Pathology & Mi Chairman & Consult	crobiology)	'ugam Chopra MD (Pathology) sultant Pathologist	
NAME	: Mrs. VARSHA MALHOTRA			
GE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1067055	
OLLECTED BY	:	REG. NO./LAB NO.		
EFERRED BY	:	REGISTRATION D A		
ARCODE NO.	: 01518621	COLLECTION DAT	E : 10/Oct/2024 08:00	8AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 10/Oct/2024 11:23	3AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value Uni	it Biological	Reference interval
 Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin the 	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuses monemias (urea is virtually absent of inappropiate antidiuretic harmone (0:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure.	in blood). e) due to tubular secretion of urea ne to creatinine). ase in creatinine with certain metl surement). GFR (mL/min/1.73m2)		al ratio when dehydratio
G3a	Mild decrease in GFR	60 -89	ADUMINO CASE IN UNNE	-
G3b	Moderate decrease in GF			1
G4	Severe decrease in GFR			1
CE	Kide ov foilung	.1E		7

G5

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

Kidney failure

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

<15

 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 Chopra MD (Pathology & Microbio Chairman & Consultant Pat	logy) MD	n Chopra 9 (Pathology) 1t Pathologist
NAME	: Mrs. VARSHA MALHOTRA		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1067055
COLLECTED BY	:	REG. NO./LAB NO.	: 012410100007
REFERRED BY	:	REGISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	: 01518621	COLLECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Val	ue 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







	MD (Pathology & Microbi Chairman & Consultant P		Dr. Yugam MD O & Consultant	(Pathology)
NAME : Mrs.	VARSHA MALHOTRA			
AGE/ GENDER : 52 YE	RS/FEMALE	PATIENT I	D	: 1067055
COLLECTED BY :		REG. NO./I	AB NO.	: 012410100007
REFERRED BY :		REGISTRA	TION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO. : 0151	8621	COLLECTIO	ON DATE	: 10/Oct/2024 08:08AM
CLIENT CODE. : KOS	DIAGNOSTIC LAB	REPORTIN	G DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS : 6349	0/1, NICHOLSON ROAD, AMBALA	A CANTT		
Test Name	Va	alue	Unit	Biological Reference interval
	E		GΥ	
	THYRO	D FUNCTION TES	T: TOTAL	
RIIODOTHYRONINE (T3): SE	ERUM 1 MICROPARTICLE IMMUNOASSAY)	.034	ng/mL	0.35 - 1.93
THYROXINE (T4): SERUM	7	.08	µgm/dL	4.87 - 12.60
		.531	μIU/mL	0.35 - 5.50
FHYROID STIMULATING HOP by CMIA (CHEMILUMINESCENT)				

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

3. Serum T4 levies 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROX	INE (T4)	THYROID STIMUL	ATING 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





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 Patholog		(Pathology)
NAME	: Mrs. VARSHA MALHOTRA		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1067055
COLLECTED BY	:	REG. NO./LAB NO.	: 012410100007
REFERRED BY	:	REGISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	: 01518621	COLLECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 10/Oct/2024 11:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	TT	

Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LI	VELS DURING PREG	NANCY (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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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)







	MD (Patho	y Chopra logy & Microbiology) & Consultant Pathologist	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mrs. VARSHA MALHO	TRA		
AGE/ GENDER	: 52 YRS/FEMALE	PAT	IENT ID	: 1067055
COLLECTED BY	:	REG	NO./LAB NO.	: 012410100007
REFERRED BY	:	REG	ISTRATION DATE	: 10/Oct/2024 08:05 AM
BARCODE NO.	:01518621	COL	LECTION DATE	: 10/Oct/2024 08:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 10/Oct/2024 03:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	COAD, AMBALA CANTT		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT	Unit	Biological Reference interval
	: 6349/1, NICHOLSON R			Biological Reference interval
	: 6349/1, NICHOLSON R	Value	HOLOGY	Biological Reference interval
Test Name MICROALBUMIN: R by NEPHLOMETRY		Value CLINICAL PAT	HOLOGY	Biological Reference interval
Test Name MICROALBUMIN: R by NEPHLOMETRY	ANDOM URINE	Value CLINICAL PAT MICROALBUMIN - R	HOLOGY ANDOM URINE mg/L	
Test Name MICROALBUMIN: R by NEPHLOMETRY <u>INTERPRETATION</u> :-	ANDOM URINE	Value CLINICAL PAT MICROALBUMIN - R 5.36	HOLOGY ANDOM URINE mg/L	0 - 25

2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure.

3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.

4. Microal buminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroal buminuria, the presence of which indicates serious kidney disease.

5. Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension. 6. Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction.

NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dl OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN:CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS APPROPIATE.







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

