



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultan	obiology)	Dr. Yugam MD ( CEO & Consultant F	Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE	PA	FIENT ID	: 1803678
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012503240047
REFERRED BY	:	RE	GISTRATION DATE	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675	CO	LLECTION DATE	:24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 24/Mar/2025 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWASTI	IYA WELL	NESS PANEL: G	ł
	COMP	LETE BLOO	D COUNT (CBC)	
RED BLOOD CELI	LS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	11.5 <sup>L</sup>	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL	(RBC) COUNT	4.66	Millions/c	emm 3.50 - 5.00
	OCUSING, ELECTRICAL IMPEDENCE	4.00	TVIIIIION3/C	5.50 - 5.00
PACKED CELL VOI	LUME (PCV) UTOMATED HEMATOLOGY ANALYZER	36.7 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCU	LAR VOLUME (MCV)	78.7 <sup>L</sup>	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER LAR HAEMOGLOBIN (MCH)	J	20	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER	24.6 <sup>L</sup>	pg	27.0 - 34.0
	LAR HEMOGLOBIN CONC. (MCHO UTOMATED HEMATOLOGY ANALYZER	<sup>C)</sup> 31.2 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRI	BUTION WIDTH (RDW-CV)	14.2	%	11.00 - 16.00
•	UTOMATED HEMATOLOGY ANALYZER BUTION WIDTH (RDW-SD)	42.2	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED		16.89	RATIO	BETA THALASSEMIA TRAIT: <
Sy OALOOLATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING IN	DEX	23.91	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				<= 65.0 IRON DEFICIENCY ANEMIA: >
				65.0
	ELLS (WBCS)			
WHITE BLOOD C		9310	/cmm	4000 - 11000
WHITE BLOOD C				
TOTAL LEUCOCY	TE COUNT (TLC) / by sf cube & microscopy BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
TOTAL LEUCOCY by FLOW CYTOMETRY NUCLEATED RED by AUTOMATED 6 PAF	BY SF CUBE & MICROSCOPY	NIL	%	0.00 - 20.00 < 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: 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 13

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE	PATI	ENT ID	: 1803678
COLLECTED BY	: SURJESH		NO./LAB NO.	: 012503240047
	: SUBESH			
REFERRED BY	:		STRATION DATE	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675		ECTION DATE	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 24/Mar/2025 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	7		
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	64	%	50 - 70
LYMPHOCYTES		29	%	20 - 40
	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS		4	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	3	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	J	/0	2 - 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTH		5958	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	2700	1	800 4000
ABSOLUTE LYMPH	HOCY TE COUNT Y BY SF CUBE & MICROSCOPY	2700	/cmm	800 - 4900
ABSOLUTE EOSIN		372	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE MONO		279	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY			
	OTHER PLATELET PREDICTI			
PLATELET COUNT		449000	/cmm	150000 - 450000
PLATELETCRIT (P	FOCUSING, ELECTRICAL IMPEDENCE	o deH	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE	0.46 <sup>H</sup>	70	0.10 - 0.50
MEAN PLATELET		10	fL	6.50 - 12.0
-	OCUSING, ELECTRICAL IMPEDENCE			
	E CELL COUNT (P-LCC)	119000 <sup>H</sup>	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE	26.5	0/	11.0 45.0
	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	26.5	%	11.0 - 45.0
•	IBUTION WIDTH (PDW)	15.8	%	15.0 - 17.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	ICTED ON EDTA WHOLE BLOOD			



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

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





Page 2 of 13





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. SANDHYA MITTAL		
AGE/ GENDER	: 29 YRS/FEMALE	PATIENT ID	: 1803678
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012503240047
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675	<b>COLLECTION DATE</b>	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 24/Mar/2025 12:28PM
<b>CLIENT ADDRESS</b>	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>





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

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

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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)		(Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1803678
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503240047
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675		COLLECTION DATE	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 24/Mar/2025 01:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interva</b>
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	AEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	8.8 <sup>H</sup> 205.86 <sup>H</sup>	% mg/dL	4.0 - 6.4 60.00 - 140.00
	AS PER AMERICAN D	ABETES ASSOCI	ATION (ADA):	
	REFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		(HBAIC) in %
	abetic Adults >= 18 years	<5.7		
At Risk (Prediabetes)		-	5.7 - 6.4	
D	iagnosing Diabetes	-	>= 6.5	
		Goals	Age > 19 Years s of Therapy:	< 7.0
Therapeut	ic goals for glycemic control		ns Suggested:	>8.0
merupeutie gouis for grycenne control			Age < 19 Years	
		Goal of therapy:		

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra & Microbiology) onsultant Pathologis		(Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1803678
COLLECTED BY	: SURJESH		<b>REG. NO./LAB NO.</b>	: 012503240047
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675		COLLECTION DATE	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 24/Mar/2025 12:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAL	), AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
			IMENTATION RATE	
	DIMENTATION RATE (ESI ATION BY CAPILLARY PHOTOME	///	mm/1st h	ur 0 - 20
immune disease, but of 2. An ESR can be affect as C-reactive protein 3. This test may also be systemic lupus erythe <b>CONDITION WITH LOV</b> A low ESR can be seer (polycythaemia), signi as sickle cells in sickle <b>NOTE:</b> 1. ESR and C - reactive 2. Generally, ESR does 3. <b>CRP is not affected</b> 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dextr	does not tell the health practit ted by other conditions beside matosus / ESR n with conditions that inhibit t ficantly high white blood cell cell anaemia) also lower the protein (C-RP) are both marke to change as rapidly as does by as many other factors as is i d, it is typically a result of two re a higher ESR, and menstruat	ioner exactly wher es inflammation. For ivity and response he normal sedimer count (leucocytosi ESR. ers of inflammation s CRP, either at the <b>ESR, making it a be</b> o types of proteins, tion and pregnancy	re the inflammation is in the or this reason, the ESR is typ to therapy in both of the a ntation of red blood cells, su is), and some protein abno n. e start of inflammation or as <b>tter marker of inflammatior</b> globulins or fibrinogen. can cause temporary eleva	picallý used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.
IN THE REAL PROPERTY IN THE			٨	





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.



		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SANDHYA MITTAL : 29 YRS/FEMALE : SURJESH : : 01527675 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON RO	PATI REG. REGI COLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE DRTING DATE	: 1803678 <b>: 012503240047</b> : 24/Mar/2025 11:56 AM : 24/Mar/2025 12:16PM : 24/Mar/2025 01:14PM
Test Name		Value	Unit	<b>Biological Reference interval</b>
<b>INTERPRETATION</b> <b>IN ACCORDANCE WIT</b> 1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	E - PEROXIDASE (GOD-POD) H AMERICAN DIABETES ASSOC lucose level below 100 mg/d lucose level between 100 - 1 on of 75 gms of glucose) is re	I is considered normal. 25 mg/dI is considered as g ecommended for all such pa J/dI is highly suggestive of c	atients. liabetic state. A repea	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 rediabetic. A fasting and post-prandial blood t post-prandial is strongly recommended for al tory for diabetic state.

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

 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







		Chopra y & Microbiology) Consultant Pathologis		
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SANDHYA MITTAL : 29 YRS/FEMALE : SURJESH : : 01527675 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	D, AMBALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1803678 <b>: 012503240047</b> : 24/Mar/2025 11:56 AM : 24/Mar/2025 12:16PM : 24/Mar/2025 01:05PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		173.3	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	SERUM HATE OXIDASE (ENZYMATIC)	163.48 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERC	OL (DIRECT): SERUM	44.37	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		96.23	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 CHOLES by CALCULATED, SPE		128.93	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 CHOLESTER by CALCULATED, SPE		32.7	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI		510.08	mg/dL	350.00 - 700.00
CHOLESTEROL/HD		3.91	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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

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

Page 7 of 13

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra & Microbiology) onsultant Pathologi		(Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1803678
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503240047
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 24/Mar/2025 11:56 AM
BARCODE NO.	:01527675		<b>COLLECTION DATE</b>	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 24/Mar/2025 01:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTI	ſ	
Test Name		Value	Unit	<b>Biological Reference interval</b>
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		2.17	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	3.68	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 ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
NAME	: Mrs. SANDHYA MITTAL				
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1803678	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503240047	
REFERRED BY			REGISTRATION DATE	: 24/Mar/2025 11:56 AM	
BARCODE NO.	: 01527675		COLLECTION DATE	: 24/Mar/2025 12:16PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Mar/2025 01:05PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
	LIVER F	UNCTIO	N TEST (COMPLETE)		
BILIRUBIN TOTAL: by DIAZOTIZATION, SP		0.32	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	C (CONJUGATED): SERUM	0.14	mg/dL	0.00 - 0.40	
	CT (UNCONJUGATED): SERUM	0.18	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM		45.5 <sup>H</sup>	U/L	7.00 - 45.00	
SGPT/ALT: SERUM by IFCC, WITHOUT PYF		62.2 <sup>H</sup>	U/L	0.00 - 49.00	
AST/ALT RATIO: SI	-	0.73	RATIO	0.00 - 46.00	
ALKALINE PHOSPH by PARA NITROPHENY PROPANOL	IATASE: SERUM /L PHOSPHATASE BY AMINO METHYL	79	U/L	40.0 - 130.0	
GAMMA GLUTAM by SZASZ, SPECTROP	YL TRANSFERASE (GGT): SERUM htometry	21.87	U/L	0.00 - 55.0	
TOTAL PROTEINS: by BIURET, SPECTROF	SERUM	7.56	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL GF		3.68	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM	I I I I I I I I I I I I I I I I I I I	3.88 <sup>H</sup>	gm/dL	2.30 - 3.50	
A : G RATIO: SERU by CALCULATED, SPEC	Μ	0.95 <sup>L</sup>	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





**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. Yugam MD ( EO & Consultant I	Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE	PATIENT	T ID	: 1803678
COLLECTED BY	: SURJESH	REG. NO.	/LAB NO.	: 012503240047
REFERRED BY	:	REGISTR	ATION DATE	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675	COLLECT	TON DATE	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 24/Mar/2025 01:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incre	eased)

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased). **PROGNOSTIC SIGNIFICANCE:** 

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 Chop MD (Pathology & M Chairman & Consul	icrobiology)		(Pathology)
NAME	: Mrs. SANDHYA MITTAL			
AGE/ GENDER	: 29 YRS/FEMALE		PATIENT ID	: 1803678
<b>COLLECTED BY</b>	: SURJESH		REG. NO./LAB NO.	: 012503240047
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675		COLLECTION DATE	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 24/Mar/2025 01:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	ÍBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNEY	Y FUNCTIO	N TEST (COMPLETI	E)
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	20.2	mg/dL	10.00 - 50.00
CREATININE: SER by ENZYMATIC, SPEC	UM	0.85	mg/dL	0.40 - 1.20
BLOOD UREA NIT	ROGEN (BUN): SERUM ECTROPHOTOMETRY	9.44	mg/dL	7.0 - 25.0
BLOOD UREA NIT RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	11.11	RATIO	10.0 - 20.0
UREA/CREATININ	E RATIO: SERUM	23.76	RATIO	
URIC ACID: SERUM		4.64	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		9.91	mg/dL	8.50 - 10.60
PHOSPHOROUS: SI by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	2.59	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	139.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU		3.86	mmol/L	3.50 - 5.00
CHLORIDE: SERUN by ISE (ION SELECTIV		104.63	mmol/L	90.0 - 110.0
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	MERULAR FILTERATION RATE			

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.



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.





J 9001.2008 CENTI						
		Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		<b>Igam Chopra</b> MD (Pathology) ultant Pathologist	
NAME	: Mrs. SAND	HYA MITTAL				
AGE/ GENDER	: 29 YRS/FEM	MALE	P	ATIENT ID	: 1803678	
COLLECTED BY	: SURJESH		R	EG. NO./LAB NO.	:012503240047	
REFERRED BY			R	EGISTRATION DA	<b>TE</b> : 24/Mar/2025 11:	56 AM
BARCODE NO.	:01527675			DILECTION DATE		
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		EPORTING DATE	: 24/Mar/2025 01:	
CLIENT CODE.		CHOLSON ROAD, AMBA		EI ORIING DATE	. 24/ Wai / 2023 01.	
CLIENT ADDRESS	. 0343/ 1, 11	CHOLSON ROAD, AND	ALA CANT I			
Test Name			Value	Unit	Biologic	al Reference interval
	osis. d starvation.	REASED BUN :				
<ol> <li>SIADH (syndrome o 8. Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide therag</li> <li>Rhabdomyolysis (red)</li> <li>Muscular patients v</li> <li>INAPPROPIATE RATIO:</li> </ol>	urea rather the nonemias (ure f inappropiate <b>0:1) WITH INCI</b> by (accelerates eleases muscle who develop r	an creatinine diffuses c ea is virtually absent in antidiuretic harmone) REASED CREATININE: s conversion of creatine e creatinine). enal failure.	blood). due to tubular e to creatinine	secretion of urea.	odologies.resulting in norm	al ratio when dehydratio
<ol> <li>SIADH (syndrome o 8. Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide therag</li> <li>Rhabdomyolysis (reflection)</li> <li>Muscular patients view</li> <li>INAPPROPIATE RATIO:</li> <li>Diabetic ketoacidos</li> <li>should produce an income should produce should produce an income should produce shoul</li></ol>	urea rather the nonemias (ure f inappropiate 0:1) WITH INCI oy (accelerates eleases muscle who develop r sis (acetoaceta ereased BUN/c apy (interferes	an creatinine diffuses c ea is virtually absent in antidiuretic harmone) <b>REASED CREATININE:</b> s conversion of creatine e creatinine). enal failure. ate causes false increas creatinine ratio). s with creatinine measu	blood). due to tubular e to creatinine e in creatinine	secretion of urea.	odologies,resulting in norm	nal ratio when dehydratio
<ol> <li>SIADH (syndrome o 8. Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide therag</li> <li>Rhabdomyolysis (reflection)</li> <li>Muscular patients visual properties (NAPPROPIATE RATIO)</li> <li>Diabetic ketoacidos should produce an incomplete the statement of the statement</li></ol>	urea rather the nonemias (ure f inappropiate 0:1) WITH INCI oy (accelerates eleases muscle who develop r sis (acetoaceta ereased BUN/c apy (interferes	an creatinine diffuses c ea is virtually absent in antidiuretic harmone) <b>REASED CREATININE:</b> s conversion of creatine e creatinine). enal failure. ate causes false increas creatinine ratio). s with creatinine measu	blood). due to tubular e to creatinine e in creatinine rement).	secretion of urea.	odologies,resulting in norm ASSOCIATED FINDINGS	nal ratio when dehydratio

	CKD STAGE	DESCRIPTION		ASSOCIATED FINDINGS
	G1	Normal kidney function	>90	No proteinuria
1	G2	Kidney damage with	>90	Presence of Protein,
		normal or high GFR		Albumin or cast in urine
1	G3a	Mild decrease in GFR	60 -89	
1	G3b	Moderate decrease in GFR	30-59	
1	G4	Severe decrease in GFR	15-29	
1	G5	Kidney failure	<15	
				•





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

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









	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. SANDHYA MITTAL		
AGE/ GENDER	: 29 YRS/FEMALE	PATIENT ID	: 1803678
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012503240047
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 24/Mar/2025 11:56 AM
BARCODE NO.	: 01527675	<b>COLLECTION DATE</b>	: 24/Mar/2025 12:16PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 24/Mar/2025 01:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	<b>Biological Reference interval</b>

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

End Of Report \*\*\*





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

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

