



	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist			(Pathology)	
NAME	: Mr. SUVEER JOSHI				
AGE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 1716409	
COLLECTED BY	:		REG. NO./LAB NO.	: 012501050013	
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 05/Jan/2025 09:46 AM	
BARCODE NO.	: 01523459		COLLECTION DATE	: 05/Jan/2025 09:47AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Jan/2025 10:10AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Test Name		Value	Unit	Biological Reference interva	al
			ELLNESS PANEL: G OOD COUNT (CBC)		
<b>RED BLOOD CELLS</b>	G (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H	B)	14.4	gm/dL	12.0 - 17.0	
RED BLOOD CELL (	RBC) COUNT	5.27 <sup>H</sup>	Millions/	/cmm 3.50 - 5.00	
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	44	%	40.0 - 54.0	
MEAN CORPUSCUL		83.5	fL	80.0 - 100.0	
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.4	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.8	g/dL	32.0 - 36.0	
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.3	%	11.00 - 16.00	
RED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	41.6	fL	35.0 - 56.0	
MENTZERS INDEX		15.84	RATIO	BETA THALASSEMIA TRAIT 13.0 IRON DEFICIENCY ANEMIA >13.0	
GREEN & KING INE by CALCULATED	DEX	21.13	RATIO	BETA THALASSEMIA TRAIT 65.0 IRON DEFICIENCY ANEMIA 65.0	
WHITE BLOOD CE	LLS (WBCS)				
TOTAL LEUCOCYTE	COUNT (TLC) / by sf cube & microscopy	8210	/cmm	4000 - 11000	
	SLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
	BLOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %	





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. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SUVEER JOSHI AGE/ GENDER : 41 YRS/MALE **PATIENT ID** :1716409 **COLLECTED BY** :012501050013 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :05/Jan/2025 09:46 AM **BARCODE NO.** :01523459 **COLLECTION DATE** :05/Jan/202509:47AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Jan/2025 10:10AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 56 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 34 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4598 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2791 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 328 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 493 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 241000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.3 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 12<sup>H</sup> 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 101000<sup>H</sup> 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 41.8 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.2% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra

MD (Pathology & Microbiology)

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







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. SUVEER JOSHI		
AGE/ GENDER	: 41 YRS/MALE	PATIENT ID	: 1716409
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 012501050013
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 05/Jan/2025 09:46 AM
BARCODE NO.	: 01523459	<b>COLLECTION DATE</b>	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 05/Jan/2025 10:10AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Valu	e Unit	Biological Reference interval





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			(Pathology)	
NAME	: Mr. SUVEER JOSHI				
AGE/ GENDER	: 41 YRS/MALE	PATI	ENT ID	: 1716409	
COLLECTED BY	:	REG. ]	NO./LAB NO.	: 012501050013	
REFERRED BY		REGIS	STRATION DATE	: 05/Jan/2025 09:46 AM	
BARCODE NO.	: 01523459		ECTION DATE	: 05/Jan/2025 09:47AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 05/Jan/2025 02:05PM	
			ATING DATE	. 05/ Jail/ 2025 02.051 M	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
WHOLE BLOOD	EMOGLOBIN (HbA1c):	7.4 <sup>H</sup>	%	4.0 - 6.4	
by HPLC (HIGH PERFO ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE	165.68 <sup>H</sup>	mg/dL	60.00 - 140.00	
by HPLC (High Perfo INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY)				
	AS PER AMERICAN REFERENCE GROUP	DIABETES ASSOCIATION			
	abetic Adults >= 18 years	GLYCOSY	2LATED HEMOGLOGIB <5.7	(HBAIC) IN %	
	t Risk (Prediabetes)	- /	5.7 - 6.4		
	liagnosing Diabetes	>= 6.5			
b			Age > 19 Years		
		Goals of The		< 7.0	
Therapeut	ic goals for glycemic control	Actions Sugge	ested:	>8.0	
		Age < 19 Years			
		Goal of the			

**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 appropiate.

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

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

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





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology)		(Pathology)
IAME	: Mr. SUVEER JOSHI			
GE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 1716409
COLLECTED BY	:		REG. NO./LAB NO.	: 012501050013
REFERRED BY	:		REGISTRATION DATE	: 05/Jan/2025 09:46 AM
ARCODE NO.	: 01523459		COLLECTION DATE	: 05/Jan/2025 09:47AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	:	REPORTING DATE	: 05/Jan/2025 10:34AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		Vulue	Cint	biological vererence interval
	ERYTHRO	OCYTE SEDIN	IENTATION RATE (	ESR)
RYTHROCYTE SEI	DIMENTATION RATE (ESR)	9	mm/1st	
	GATION BY CAPILLARY PHOTOMETRY		iiiiii/ 15t	
An ESR can be affe s C-reactive protein . This test may also ystemic lupus erythm <b>ONDITION WITH LO</b> low ESR can be see oolycythaemia), sign s sickle cells in sickl <b>OTE:</b> . ESR and C - reactiv . Generally, ESR doe . <b>CRP is not affected</b> . If the ESR is elevat . Women tend to ha . Drugs such as dext	be used to monitor disease activit ematosus <b>W ESR</b> n with conditions that inhibit the ificantly high white blood cell cou e cell anaemia) also lower the ES e protein (C-RP) are both markers s not change as rapidly as does CF by as many other factors as is ESR ed, it is typically a result of two ty ve a higher ESR, and menstruation	nflammation. For y and response t normal sediment int (leucocytosis) R. of inflammation. RP, either at the <b>, making it a bett</b> pes of proteins, g and pregnancy of	r this reason, the ESR is ty o therapy in both of the a ation of red blood cells, s ) , and some protein abno start of inflammation or a <b>er marker of inflammatio</b> n globulins or fibrinogen.	picallý used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count prmalities. Some changes in red cell shape (such s it resolves. <b>n</b> .





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

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







		y & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SUVEER JOSHI			
AGE/ GENDER	: 41 YRS/MALE	PATIE	INT ID	: 1716409
COLLECTED BY	:	REG. N	IO./LAB NO.	: 012501050013
REFERRED BY	:	REGIS	TRATION DATE	: 05/Jan/2025 09:46 AM
BARCODE NO.	:01523459	COLLI	ECTION DATE	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 05/Jan/2025 11:41AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLIN	ICAL CHEMISTRY/	BIOCHEMIST	RY
		<b>GLUCOSE FAST</b>	'ING (F)	

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





**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) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SUVEER JOSHI			
AGE/ GENDER	: 41 YRS/MALE	PA	TIENT ID	: 1716409
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012501050013
<b>REFERRED BY</b>	:	RE	GISTRATION DATE	: 05/Jan/2025 09:46 AM
BARCODE NO.	: 01523459	CO	LLECTION DATE	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 05/Jan/2025 10:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TO	TAL · SERUM	140.17	mg/dL	<b>OPTIMAL:</b> < 200.0
by CHOLESTEROL OX		140.17	ing/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	ERUM PHATE OXIDASE (ENZYMATIC)	79.34	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM Ion	41.56	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		97.14	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 CHOLEST by CALCULATED, SPE		98.61	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(		15.87	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	CUM	374.08	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	L RATIO: SERUM	3.37	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0





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.





	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mr. SUVEER JOSHI			
AGE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 1716409
COLLECTED BY	:		REG. NO./LAB NO.	: 012501050013
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 05/Jan/2025 09:46 AM
BARCODE NO.	:01523459		COLLECTION DATE	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 05/Jan/2025 10:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		2.34	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	1.91 <sup>L</sup>	RATIO	3.00 - 5.00

#### **INTERPRETATION:**

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

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

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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







	<b>Dr. Vinay Chop</b> MD (Pathology & Mid Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mr. SUVEER JOSHI			
AGE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 1716409
COLLECTED BY	:		REG. NO./LAB NO.	:012501050013
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 05/Jan/2025 09:46 AM
BARCODE NO.	: 01523459		<b>COLLECTION DATE</b>	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 05/Jan/2025 11:41AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTI	ſ	
Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL		0.63	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.46	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	33.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	31.8	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.04	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	42.75	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRON	L TRANSFERASE (GGT): SERUM PHTOMETRY	25.1	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.76	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.18	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		2.58	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.62	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

### 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 Chopra MD (Pathology & Micro Chairman & Consultan	obiology) MD	(Pathology)
NAME	: Mr. SUVEER JOSHI		
AGE/ GENDER	: 41 YRS/MALE	PATIENT ID	: 1716409
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012501050013
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 05/Jan/2025 09:46 AM
BARCODE NO.	: 01523459	COLLECTION DATE	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 05/Jan/2025 11:41AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT	
Tost Namo		Valuo Unit	Biological Potoronco intorval

Test Name Value	Unit I	Biological Reference interval
-----------------	--------	-------------------------------

## DECREASED:

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

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

PROGNOSTIC SIGNIFICANCE:

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







SU 9001:2008 CERT			EXCELLENCE IN HEALTHCARE & I	
	<b>Dr. Vinay Cho</b> MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam ( MD (P CEO & Consultant P	Pathology)
NAME	: Mr. SUVEER JOSHI			
AGE/ GENDER	: 41 YRS/MALE	PAT	IENT ID	: 1716409
<b>COLLECTED BY</b>	:	REG.	NO./LAB NO.	: 012501050013
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 05/Jan/2025 09:46 AM
BARCODE NO.	: 01523459	COL	LECTION DATE	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 05/Jan/2025 10:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNE	Y FUNCTION T	EST (COMPLETE)	
UREA: SERUM	ATE DEHYDROGENASE (GLDH)	32.02	mg/dL	10.00 - 50.00
CREATININE: SERU	JM	0.93	mg/dL	0.40 - 1.40
	OGEN (BUN): SERUM	14.96	mg/dL	7.0 - 25.0
BLOOD UREA NITR	OGEN (BUN)/CREATININE	16.09	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININI	E RATIO: SERUM	34.43	RATIO	
by CALCULATED, SPE URIC ACID: SERUM		1.67 <sup>L</sup>	mg/dL	3.60 - 7.70
by URICASE - OXIDAS		10.08	mg/dL	8.50 - 10.60
by ARSENAZO III, SPEC PHOSPHOROUS: SE		2.97	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBD ELECTROLYTES	ATE, SPECTROPHOTOMETRY		U	
ELECTROLYTES SODIUM: SERUM		140.25	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN by ISE (ION SELECTIV		3.99	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE		105.19	mmol/L	90.0 - 110.0
	ERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	105.8		

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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

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

 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





		<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist				
NAME	: Mr. SUVEER	JOSHI						
AGE/ GENDER	<b>R</b> : 41 YRS/MALE		F	PATIENT ID : 1		1716409		
COLLECTED BY	:		F	REG. NO./LAB NO	. :	0125010500	13	
REFERRED BY	•		F	<b>REGISTRATION D</b>	ATE :	05/Jan/2025 (	)9:46 AM	
BARCODE NO.	:01523459			COLLECTION DAT		05/Jan/2025 (		
CLIENT CODE.	: KOS DIAGNO	STIC I AB		REPORTING DAT		05/Jan/2025 1		
CLIENT ADDRESS		IOLSON ROAD, AMB				00/ Jan/ 2020 1	0.42/10	
Test Name			Value	Un	uit	Biolog	gical Referen	ce interval
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr	xia, high fever). (e.g. ureter colc ass (subnormal tetracycline, glu <b>0:1) WITH ELEVA</b> (BUN rises disp superimposed o <b>0:1) WITH DECR</b> osis.	stomy) creatinine productior cocorticoids) <b>TED CREATININE LEV</b> roportionately more n renal disease.	)) ELS:	n, GI bleeding, thy e) (e.g. obstructive			arome, high pr	otem utet,
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 4. Postrenal azotemia 5. Prerenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 5. Low protein diet and 6. Severe liver diseas 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 7. SIADH (syndrome of 9. Phenacimide theration 9. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido 5. Acute tubular necr 9. Cephalosporin their	xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. creased urea syn urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rei sis (acetoacetate creased BUN/creased apy (interferes w LAR FILTERATIO	stomy) creatinine production cocorticoids) <b>TED CREATININE LEV</b> roportionately more n renal disease. <b>EASED BUN :</b> thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) <b>ASED CREATININE:</b> conversion of creating reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measu. <u>N RATE: DESCRIPTION mal kidney function</u> dney damage with	e in creatining ement).	e) (e.g. obstructive llular fluid). r secretion of urea	e uropathy) a. thodologies	,resulting in no ATED FINDING proteinuria nce of Protein ,	ormal ratio wh	
Y. Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet an     Severe liver diseas     Other causes of de     Repeated dialysis     Inherited hyperam     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Phenacimide thera     Rhabdomyolysis (r     B. Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     CEphalosporin ther     STIMATED GLOMERI     G1     G2	xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. e. creased urea syr urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rei sis (acetoacetate creased BUN/crea apy (interferes v UAR FILTERATIO	stomy) creatinine production cocorticoids) <b>TED CREATININE LEV</b> roportionately more n renal disease. <b>EASED BUN :</b> thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) <b>ASED CREATININE:</b> conversion of creating reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measu. <u>V RATE:</u> <u>DESCRIPTION</u> mal kidney function dney damage with prmal or high GFR_	a) ELS: Than creatinin but of extrace blood). due to tubula e to creatinine e in creatinine rement).	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>./min/1.73m2 ) &gt;90 &gt;90</u>	e uropathy) a. thodologies	,resulting in no <b>ATED FINDING</b> proteinuria	ormal ratio wh	
2. Urine reabsorption 3. Reduced muscle m 3. Certain drugs (e.g. NCREASED RATIO (>2 4. Postrenal azotemia 5. Prerenal azotemia 6. Certain drubular necr 6. Low protein diet an 6. Severe liver diseas 6. Other causes of de 6. Repeated dialysis (f 6. Inherited hyperam 7. SIADH (syndrome of 6. Pregnancy. 5. Pregnancy. 5. Phenacimide thera 6. Rabdomyolysis (r 6. Muscular patients 5. NAPPROPIATE RATIO 6. Diabetic ketoacido 6. Nould produce an in 6. Cephalosporin ther 6. STIMATED GLOMERL 6. G1 6. G2 6. G1 6. G2 6. G3a	xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. e. creased urea syr urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rei sis (acetoacetate creased BUN/crea apy (interferes v UAR FILTERATIO	stomy) creatinine production cocorticoids) <b>TED CREATININE LEV</b> roportionately more n renal disease. <b>EASED BUN :</b> thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) <b>ASED CREATININE:</b> conversion of creating reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measu. <u>V RATE:</u> <u>DESCRIPTION</u> mal kidney function dney damage with ormal or high GFR_ id decrease in GFR	b) ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinine rement).	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>/min/1.73m2 ) &gt;90 &gt;90 60 -89</u>	e uropathy) a. thodologies	,resulting in no ATED FINDING proteinuria nce of Protein ,	ormal ratio wh	
7. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia <b>DECREASED RATIO (</b> 2. Prerenal azotemia <b>DECREASED RATIO (</b> 3. Acute tubular necr 4. Acute tubular necr 5. Low protein diet an 6. Severe liver diseas 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 6. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin there <b>ESTIMATED GLOMERI</b> <b>G1</b> <b>G2</b>	xia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. e. creased urea syr urea rather thar monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop rei sis (acetoacetate creased BUN/crea aby (interferes w LAR FILTERATIO	stomy) creatinine production cocorticoids) <b>TED CREATININE LEV</b> roportionately more n renal disease. <b>EASED BUN :</b> thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) <b>ASED CREATININE:</b> conversion of creating reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measu. <u>V RATE:</u> <u>DESCRIPTION</u> mal kidney function dney damage with prmal or high GFR_	a) ELS: than creatinin but of extrace blood). due to tubula e to creatinine e in creatinine rement). GFR (mL	e) (e.g. obstructive llular fluid). r secretion of urea e). e with certain met <u>./min/1.73m2 ) &gt;90 &gt;90</u>	e uropathy) a. thodologies	,resulting in no ATED FINDING proteinuria nce of Protein ,	ormal ratio wh	





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







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolo Chairman & Consultant Patho		(Pathology)
NAME	: Mr. SUVEER JOSHI		
AGE/ GENDER	: 41 YRS/MALE	PATIENT ID	: 1716409
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012501050013
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 05/Jan/2025 09:46 AM
BARCODE NO.	: 01523459	<b>COLLECTION DATE</b>	: 05/Jan/2025 09:47AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 05/Jan/2025 10:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Test Name	Value	e 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

End Of Report \*\*\*





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

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

