



	Dr. Vinay Chopra	а	I Dr. Yu	ıgam Chopra	
	MD (Pathology & Microbiology) Chairman & Consultant Pathologist			MD (Pathology) ultant Pathologist	
NAME	: Mr. NIKHIL SOOD	it i athologis		untaint i athologisi	
AGE/ GENDER	: 35 YRS/MALE		PATIENT ID	: 16734	35
COLLECTED BY	: SURJESH		REG. NO./LAB NO.		1160023
REFERRED BY			REGISTRATION DAT		v/2024 10:22 AM
BARCODE NO.	: 01520899		COLLECTION DATE		v/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE		v/2024 11:15AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
Test Name		Value	Unit		Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL	: 1.5	
	COMP	PLETE BL	OOD COUNT (CB	<b>C</b> )	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H by CALORIMETRIC	B)	14.6	gm/	′dL	12.0 - 17.0
RED BLOOD CELL (	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	5.67 <sup>H</sup>	Milli	ions/cmm	3.50 - 5.00
PACKED CELL VOL	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	46.2	%		40.0 - 54.0
MEAN CORPUSCUL		81.3	fL		80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	25.7 <sup>L</sup>	pg		27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.6 <sup>L</sup>	g/dI	L	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	12.9	%		11.00 - 16.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	39.5	fL		35.0 - 56.0
MENTZERS INDEX by CALCULATED		14.34	RAT	OI'	BETA THALASSEMIA TRAIT: < 13.0
					IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI	DEX	18.46	RAT	'IO	BETA THALASSEMIA TRAIT:<= 65.0
					IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)				
TOTAL LEUCOCYTE	E COUNT (TLC) ( by sf cube & microscopy	6800	/cm	m	4000 - 11000
	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL			0.00 - 20.00
NUCLEATED RED E	BLOOD CELLS (nRBCS) %	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. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. NIKHIL SOOD AGE/ GENDER : 35 YRS/MALE **PATIENT ID** :1673435 **COLLECTED BY** : SURJESH :012411160023 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 16/Nov/2024 10:22 AM : **BARCODE NO.** :01520899 **COLLECTION DATE** :16/Nov/2024 10:29AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :16/Nov/2024 11:15AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 36<sup>L</sup> % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 55<sup>H</sup> LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 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 2448 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3740 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 272/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 340 /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 110000<sup>L</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.18 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 17<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 80000 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 73.1<sup>H</sup> 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.3% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

ADVICE



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

**KINDLY CORRELATE CLINICALLY** 

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







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbio Chairman & Consultant Pa	G, /	(Pathology)
NAME	: Mr. NIKHIL SOOD		
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	: 1673435
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012411160023
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	<b>COLLECTION DATE</b>	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 16/Nov/2024 11:15AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	lue Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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 Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologi			Dr. Yugan MD CEO & Consultant	(Pathology)	
NAME	: Mr. NIKHIL SOOD				
AGE/ GENDER	: 35 YRS/MALE	PATI	ENT ID	: 1673435	
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	:012411160023	
REFERRED BY	:	REGI	STRATION DATE	: 16/Nov/2024 10:2	2 AM
BARCODE NO.	: 01520899	COLL	ECTION DATE	: 16/Nov/2024 10:2	9AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 16/Nov/2024 02:3	7PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological	Reference interval
GLYCOSYLATED HA	GLYC EMOGLOBIN (HbA1c):	<b>DSYLATED HAEMO</b> 5.9	GLOBIN (HBA1) %	<b>C)</b> 4.0 - 6.4	
WHOLE BLOOD	RMANCE LIQUID CHROMATOGRAPHY)				
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	122.63	mg/dL	60.00 - 14	0.00
INTERPRETATION:					
		DIABETES ASSOCIATION			
			LATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	<5.7			
	t Risk (Prediabetes)	5.7 - 6.4			
Diagnosing Diabetes >= 6.5					
			Age > 19 Years		
<b>T</b> 1 .		Goals of The		< 7.0	
Therapeut	ic goals for glycemic control	Actions Sugg		>8.0	
			Age < 19 Years		
		Goal of the	rapy:	<7.5	

#### COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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

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

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

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



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

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

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



Page 4 of 20





	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE	PATI	ENT ID	: 1673435
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012411160023
REFERRED BY	:	REGI	STRATION DATE	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	COLI	ECTION DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 16/Nov/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe <b>CONDITION WITH LOV</b> A low ESR can be see (polycythaemia), sigr as sickle cells in sickl <b>NOTE:</b>	does not tell the health practition cted by other conditions besides in be used to monitor disease activit ematosus <b>W ESR</b> n with conditions that inhibit the	her exactly where the inflammation. For this ry and response to the normal sedimentation unt (leucocytosis), an R.	inflammation is in the reason, the ESR is ty rapy in both of the a	tion associated with infection, cancer and auto- e body or what is causing it. prically 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
2. Generally, ESR doe 3. <b>CRP is not affected</b> 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	is 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	RP, either at the start <b>a making it a better m</b> pes of proteins, globu and pregnancy can ca	<b>arker of inflammatio</b> lins or fibrinogen. ause temporary eleva	n.





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 20





MD (Pathology	& Microbiology)		(Pathology)
: Mr. NIKHIL SOOD			
: 35 YRS/MALE		PATIENT ID	: 1673435
: SURJESH		REG. NO./LAB NO.	: 012411160023
:		REGISTRATION DATE	: 16/Nov/2024 10:22 AM
: 01520899		COLLECTION DATE	: 16/Nov/2024 10:29AM
: KOS DIAGNOSTIC LAB		REPORTING DATE	: 16/Nov/2024 11:42AM
: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
	Value	Unit	<b>Biological Reference interval</b>
CLINI			'nY
(F): PLASMA E - PEROXIDASE (GOD-POD)	93.59	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0
	MD (Pathology Chairman & Co : Mr. NIKHIL SOOD : 35 YRS/MALE : SURJESH : : 01520899 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD CLINI (F): PLASMA	: Mr. NIKHIL SOOD : 35 YRS/MALE : SURJESH : : 01520899 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value CLINICAL CHEMIST GLUCOSE (F): PLASMA 93.59	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mr. NIKHIL SOOD : 35 YRS/MALE PATIENT ID : SURJESH REG. NO./LAB NO. : SURJESH REG. NO./LAB NO. : 01520899 COLLECTION DATE : 01520899 COLLECTION DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 6349/1, NICHOLSON ROAD, AMBALA CANTT CLINICAL CHEMIST GLUCOSE FASTING (F) (F): PLASMA 93.59 mg/dL

KOS Diagnostic Lab (A Unit of KOS Healthcare)

**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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



Page 6 of 20





	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con	Microbiology)	Dr. Yugan MD & Consultant	(Pathology)
NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE	PATIENT II	)	: 1673435
COLLECTED BY	: SURJESH	REG. NO./L	AB NO.	: 012411160023
REFERRED BY	:	REGISTRAT	TION DATE	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	COLLECTIO	N DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING	G DATE	: 16/Nov/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE : BA	SIC	
CHOLESTEROL TOT		234.35 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP			BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
				1000000000000000000000000000000000000
TRIGLYCERIDES: SH		431.39 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPI	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL by SELECTIVE INHIBITI	L (DIRECT): SERUM	37.69	mg/dL	LOW HDL: < 30.0
by Selective inhibiti	ON			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL		NOT CALCULATED	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CIROPHOIOMEIRY			ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON HDL CHOLEST	TEDOL · SEDUM	100 00H	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPE		196.66 <sup>H</sup>	ilig/ uL	ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTERO		NOT CALCULATED	mg/dL	0.00 - 45.00
by CALCULATED, SPEC		NOT CALCULATED	mg/dL	350.00 - 700.00
by CALCULATED, SPE		NOT CALCULATED	iiig/ uL	550.00 - 700.00
CHOLESTEROL/HD		6.22 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	CIROPHOIOMEIRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
1512/54 44/157		4		
1716年後後日 3623月1日日	d.	Chokra		

Ľ7

2.5.

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 Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD & Consultant	(Pathology)
NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	)	: 1673435
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LA	AB NO.	: 012411160023
<b>REFERRED BY</b>	:	REGISTRAT	ION DATE	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	COLLECTIO	N DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING	G DATE	: 16/Nov/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		NOT CALCULATED	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		11.45 <sup>H</sup>	RATIO	3.00 - 5.00
NOTE 2		WHEN TRIGLYCERID LDL AND VLDL ARE N		400 mg/dL THE CALCULATED VALUES OF LE
ADVICE		KINDLY CORRELATE	E CLINICALL	Y

# 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

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 atherogenic) ported by the text as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along

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: Ilnd 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 & Mid Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE		PATIENT ID	: 1673435
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411160023
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899		COLLECTION DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 16/Nov/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANT	Т	
Test Name		Value	Unit	<b>Biological Reference interval</b>
BILIRUBIN DIRECT by DIAZO MODIFIED, S	: SERUM PECTROPHOTOMETRY T (CONJUGATED): SERUM SPECTROPHOTOMETRY	FUNCTIO 0.61 0.12 0.49	<b>DN TEST (COMPLETE)</b> mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40
by CALCULATED, SPE	BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry		mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	32.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	56.5 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.58	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	94.84	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	36.07	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.22	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol g		4.39	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	1	2.83	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE	N	1.55	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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbi Chairman & Consultant P		(Pathology)
NAME	: Mr. NIKHIL SOOD		
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	: 1673435
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012411160023
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	<b>COLLECTION DATE</b>	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 16/Nov/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL/	A CANTT	
Test Name	V	alue 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).

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 Cho MD (Pathology & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE		PATIENT ID	: 1673435
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012411160023
<b>REFERRED BY</b>	:		REGISTRATION DATE	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899		COLLECTION DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 16/Nov/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTIO	N TEST (COMPLETE)	)
UREA: SERUM by UREASE - GLUTAM	IATE DEHYDROGENASE (GLDH)	26.8	mg/dL	10.00 - 50.00
CREATININE: SERU by ENZYMATIC, SPEC		1.08	mg/dL	0.40 - 1.40
by CALCULATED, SPE		12.52	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by Calculated, spe	ROGEN (BUN)/CREATININE	11.59	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE		24.81	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		4.64	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		10.52	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by phosphomolybe ELECTROLYTES	ERUM DATE, SPECTROPHOTOMETRY	4.01	mg/dL	2.30 - 4.70
SODIUM: SERUM	(E ELECTRODE)	137.8	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	4.21	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	103.35	mmol/L	90.0 - 110.0
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE reen pre- and post renal azotemia.	91.8		

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.





		Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	robiology)		Yugam Ch MD (Path nsultant Path	ology)		
IAME	: Mr. NIKHII	SOOD						
AGE/ GENDER	: 35 YRS/MAI	E	F	PATIENT ID	: 1	673435		
COLLECTED BY	: SURJESH		F	REG. NO./LAB NO	. :(	1241116002	23	
REFERRED BY				REGISTRATION D		6/Nov/2024 1		
BARCODE NO.				COLLECTION DAT				
	:01520899					6/Nov/2024 1		
CLIENT CODE.	: KOS DIAGN			REPORTING DAT	E : 1	6/Nov/2024 1	1:42AM	
CLIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD, AMI	ALA CANTT					
Fest Name			Value	Un	uit	Biolog	ical Reference	e interva
burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (&lt;</b>	kia, high fever) (e.g. ureter col ass (subnorma tetracycline, gl D:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DECI	ostomy) creatinine productio ucocorticoids) <b>ATED CREATININE LEV</b> proportionately more on renal disease.	n) <b>ELS</b> :			Cushing's synd	rome, high pro	tein diet,
burns, surgery, cache 2. Urine reabsorption 3. Reduced muscle m 2. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 4. Postrenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 5. Low protein diet ar 6. Severe liver disease 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. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients <b>NAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera	se or productic kia, high fever) (e.g. ureter col ass (subnormal tetracycline, gl <b>D:1) WITH ELEV</b> (BUN rises dis superimposed <b>0:1) WITH DECI</b> osis. d starvation. creased urea sy urea rather tha nonemias (urea f inappropiate <b>0:1) WITH INCF</b> oy (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes LAR FILTERATIC	ostomy) creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. REASED BUN : Attack of the sease a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DN RATE: DESCRIPTION rmal kidney function idney damage with	n) ELS: than creatinin out of extrace blood). due to tubula e to creatinine se in creatinin urement).	e) (e.g. obstructive llular fluid). Ir secretion of urea	e uropathy). a. thodologies, ASSOCI Presen	resulting in no TED FINDINGS proteinuria re of Protein ,	rmal ratio when	
ourns, surgery, cache 2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 4. Postrenal azotemia <b>DECREASED RATIO (</b> 4. Acute tubular necr 5. Low protein diet ar 6. Severe liver disease 6. Other causes of de 6. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (&lt;</b> 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> 6. Diabetic ketoacido hould produce an in 8. Cephalosporin ther <b>STIMATED GLOMERU</b> <b>G1</b> <b>G2</b>	se or productic kia, high fever) (e.g. ureter col ass (subnormal tetracycline, gl <b>D:1) WITH ELEV</b> (BUN rises dis superimposed <b>0:1) WITH DECI</b> osis. d starvation. creased urea sy urea rather that nonemias (urea f inappropiate <b>0:1) WITH INCF</b> oy (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes LAR FILTERATIO	ostomy) creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. REASED BUN : The creatinine diffuses a is virtually absent in antidiuretic harmone REASED CREATININE: conversion of creatir creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DN RATE: DESCRIPTION rmal kidney function idney damage with normal or high GFR_	n) ELS: than creatinin out of extrace a blood). due to tubula e to creatinine se in creatinine urement). GFR (ml	e) (e.g. obstructive llular fluid). ar secretion of urea e). e with certain met <u>./min/1.73m2 ) &gt;90 &gt;90</u>	e uropathy). a. thodologies, ASSOCI Presen	esulting in no TED FINDINGS roteinuria	rmal ratio when	
Context and the second	se or productic kia, high fever) (e.g. ureter col ass (subnormal tetracycline, gl <b>D:1) WITH ELEV</b> (BUN rises dis superimposed <b>0:1) WITH DECI</b> osis. d starvation. creased urea sy urea rather tha nonemias (urea f inappropiate <b>0:1) WITH INCF</b> oy (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes LAR FILTERATIO No K No K No K No K No K No K No K No	ostomy) creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. REASED BUN : Attack of the sease a is virtually absent in antidiuretic harmone REASED CREATININE: conversion of creatir creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DN RATE: DESCRIPTION rmal kidney function idney damage with normal or high GFR lild decrease in GFR	n) ELS: than creatinin out of extrace blood). due to tubula e to creatinine se in creatinin urement). GFR (ml	e) (e.g. obstructive llular fluid). ar secretion of urea e). e with certain met <u>./min/1.73m2 )</u> >90 >90 60 -89	e uropathy). a. thodologies, ASSOCI Presen	resulting in no TED FINDINGS proteinuria re of Protein ,	rmal ratio when	
burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia <b>DECREASED RATIO (</b> 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (&lt;</b> 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <b>ESTIMATED GLOMERU</b> <b>G1</b> <b>G2</b>	se or productic kia, high fever) (e.g. ureter col ass (subnormal tetracycline, gl <b>D:1) WITH ELEV</b> (BUN rises dis superimposed <b>0:1) WITH DECI</b> osis. d starvation. creased urea source a urea rather that nonemias (urea f inappropiate <b>0:1) WITH INCF</b> oy (accelerates eleases muscle who develop re- sis (acetoaceta creased BUN/c apy (interferes LAR FILTERATION NOT	ostomy) creatinine productio ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. REASED BUN : The creatinine diffuses a is virtually absent in antidiuretic harmone REASED CREATININE: conversion of creatir creatinine). enal failure. te causes false increat reatinine ratio). with creatinine meas DN RATE: DESCRIPTION rmal kidney function idney damage with normal or high GFR_	n) ELS: than creatinin out of extrace blood). due to tubula e to creatinine se in creatinin urement). GFR (ml	e) (e.g. obstructive llular fluid). ar secretion of urea e). e with certain met <u>./min/1.73m2 ) &gt;90 &gt;90</u>	e uropathy). a. thodologies, ASSOCI Presen	resulting in no TED FINDINGS proteinuria re of Protein ,	rmal ratio when	



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









	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mr. NIKHIL SOOD		
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	: 1673435
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411160023
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	<b>COLLECTION DATE</b>	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 16/Nov/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	
Test Name	Value	Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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

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

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







	I	D <b>r. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)	
NAME	: Mr. NIKHIL	SOOD				
AGE/ GENDER	: 35 YRS/MALI	Ξ		PATIENT ID	: 1673435	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	:012411160023	
REFERRED BY	:			<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM	
BARCODE NO.	:01520899			COLLECTION DATE	: 16/Nov/2024 10:29AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		<b>REPORTING DATE</b>	: 16/Nov/2024 11:42AM	
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AM	BALA CANTT			
Test Name			Value	Unit	<b>Biological Reference in</b>	terval
			IRON	PROFILE		
RON: SERUM	TROPHOTOMETRY		59.4	μg/dL	59.0 - 158.0	
UNSATURATED IR	ON BINDING CA	APACITY (UIBC)	178.9	μg/dL	150.0 - 336.0	
SERUM by FERROZINE, SPEC	TROPUOTOMETEE	v.				
FOTAL IRON BIND			238.3	μg/dL	230 - 430	
SERUM by SPECTROPHOTON				1.0/		
%TRANSFERRIN S. by CALCULATED, SPE			24.93	%	15.0 - 50.0	
TRANSFERRIN: SE by SPECTROPHOTON			169.19 <sup>L</sup>	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAB SERUM II		ANEMIA OF CHRO Normal to Re		IRON DEFICIENCY ANEMIA		
SERUIVI II		NOTTIAL LO RE	euuceu	Reduced	Normal	

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

IRON

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

## % TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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

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

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







	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)	MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE		PATIENT ID	: 1673435
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012411160023
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899		COLLECTION DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 16/Nov/2024 02:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT	г	
Test Name		Value	Unit	Biological Reference interva
TRIIODOTHYRONI		<b>YROID FUN</b> 0.705	CTION TEST: TOTAL ng/mL	
by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOAS	,	Ū	
THYROXINE (T4): S	SERUM iescent microparticle immunoas	<b>4.61<sup>L</sup></b>	µgm/d	L 4.87 - 12.60
THYROID STIMULA by CMIA (CHEMILUMIN	ATING HORMONE (TSH): SERU	M 4.132	µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TS	H stimulates the p	roduction and secretion of the	pm. The variation is of the order of 50%.Hence time of a metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low	Normal	Normal or Low Normal	High
Primary Hyperthyroidis	sm: Increased		Increased	Reduced (at times undetectable)

#### LIMITATIONS:-

Subclinical Hyperthyroidism:

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

Normal or High Normal

Reduced

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

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROX	(INE (T4)	THYROID STIMU	LATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range ( µg/dL)	Age	Reference Range ( μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Normal or High Normal





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

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



Page 15 of 2

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 Chopra</b> MD (Pathology & Microbiolog) Chairman & Consultant Pathol		(Pathology)
NAME	: Mr. NIKHIL SOOD		
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	: 1673435
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LAB NO.	: 012411160023
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	<b>COLLECTION DATE</b>	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 16/Nov/2024 02:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	NTT	
Tost Namo	Valua	Unit	Riological Roforanco interval

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

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

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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







	MD (F	<b>/inay Chopra</b> Pathology & Microbiology) man & Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
IAME	: Mr. NIKHIL SOOI	)		
GE/ GENDER	: 35 YRS/MALE	P	ATIENT ID	: 1673435
<b>COLLECTED BY</b>	: SURJESH	R	EG. NO./LAB NO.	: 012411160023
REFERRED BY	:	R	EGISTRATION DATE	: 16/Nov/2024 10:22 AM
BARCODE NO.	:01520899	C	OLLECTION DATE	: 16/Nov/2024 10:29AM
LIENT CODE.	: KOS DIAGNOSTIC	LAB <b>R</b>	EPORTING DATE	: 16/Nov/2024 02:15PM
LIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANTT		
Fest Name		Value	Unit	<b>Biological Reference interval</b>
		VITA	MINS	
		VITAMIN D/25 HYI	ROXY VITAMIN D	3
				-
by CLIA (CHEMILUMINI	DROXY VITAMIN D3	3): SERUM 86.2	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
by CLIA (CHEMILUMINI NTERPRETATION:		3): SERUM 86.2	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINI <u>NTERPRETATION:</u> DEFIC INSUFF	ESCENCE IMMUNOASSA	8): SERUM 86.2 ×) 30 < 20 21 - 29	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 g/mL
by CLIA (CHEMILUMINI <u>NTERPRETATION:</u> DEFIC INSUFF PREFFERE INTOXI .Vitamin D compour	ESCENCE IMMUNOASSA CIENT: ICIENT: D RANGE: CATION: ds are derived from o	3): SERUM 86.2 (20) (21 - 29) (30 - 100) (30 - 100) (31 - 29) (31 - 29) (31 - 29) (31 - 100) (31 - 20) (3	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com



Page 17 of 20





	Dr. Vinay Cl MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
IAME	: Mr. NIKHIL SOOD			
GE/ GENDER	: 35 YRS/MALE	PATI	ENT ID	: 1673435
OLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012411160023
EFERRED BY	:	REGI	STRATION DATE	: 16/Nov/2024 10:22 AM
ARCODE NO.	:01520899		LECTION DATE	: 16/Nov/2024 10:29AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 16/Nov/2024 02:15PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD			. 10/110// 2021 02.101 11
LIENT ADDRESS	. 00407 I, MCHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
by CMIA (CHEMILUMIN	BALAMIN: SERUM	VITAMIN B12/C 546 ASSAY)	<b>OBALAMIN</b> pg/mL	190.0 - 890.0
by CMIA (CHEMILUMIN NTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOA	546	pg/mL	
by CMIA (CHEMILUMIN NTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOA	546		
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 hin C gen	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi	pg/mL DECREASED VITAMIN rin, Anti-convulsants,	B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition	B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> <u>INCREAS</u> 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones	B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones vsis	B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury e disorder	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple M	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones vsis yeloma	B12
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is ob	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury e disorder amin) is necessary for hematop tained only from animal protein	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple My poiesis and normal neurons and requires intrinsic	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp	B12       Colchicine       Image: state s
by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia I.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury e disorder amin) is necessary for hematop tained only from animal protein	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple My poiesis and normal neurons and requires intrinsic	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp	B12 Colchicine
by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted.	VESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury re disorder amin) is necessary for hematop tained only from animal protein itamin B12 stores very economi	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple My ooiesis and normal neuro is and requires intrinsic cally, reabsorbing vitam	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum	B12         Colchicine         Colchicine         Image: state of the liver; very little is
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie leal resection, small	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury re disorder amin) is necessary for hematop tained only from animal protein itamin B12 stores very economi ency may be due to lack of IF sec l intestinal diseases).	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple My boiesis and normal neurous and requires intrinsic cally, reabsorbing vitam cretion by gastric mucos	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum a (eg, gastrectomy, ga	B12         Colchicine         Colchicine         ion.         and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (example)
by CMIA (CHEMILUMIN INCREAS I.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia I.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié leal resection, small 5.Vitamin B12 deficié	SED VITAMIN B12 nin C gen nin A jury re disorder tained only from animal protein itamin B12 stores very economi ency may be due to lack of IF sec l intestinal diseases). ency frequently causes macrocy	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple M boiesis and normal neuro as and requires intrinsic cally, reabsorbing vitam cretion by gastric mucos tic anemia, glossitis, pel	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum a (eg, gastrectomy, ga ripheral neuropathy,	B12         Colchicine         Colchicine         ion.         and returning it to the liver; very little is         astric atrophy) or intestinal malabsorption (e         weakness, hyperreflexia, ataxia, loss of
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié leal resection, small 5.Vitamin B12 deficié proprioception, poor	SED VITAMIN B12 nin C gen nin A jury re disorder tained only from animal protein itamin B12 stores very economi ency may be due to lack of IF sec l intestinal diseases). ency frequently causes macrocy r coordination, and affective bef	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple M boiesis and normal neuro as and requires intrinsic cally, reabsorbing vitam cretion by gastric mucos tic anemia, glossitis, pel	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum a (eg, gastrectomy, ga ripheral neuropathy,	B12         Colchicine         Colchicine         ion.         and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (examples of the state of the
by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. Vitamin B12 deficié leal resection, small 5.Vitamin B12 deficié foroprioception, poor he neurologic defec: 5.Serum methylmalo	IESCENT MICROPARTICLE IMMUNOA SED VITAMIN B12 nin C gen nin A jury te disorder tamin) is necessary for hematop tained only from animal protein itamin B12 stores very economi ency may be due to lack of IF sec intestinal diseases). ency frequently causes macrocy coordination, and affective beh ts without macrocytic anemia. nic acid and homocysteine level	546 ASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple My objesis and normal neuro is and requires intrinsic cally, reabsorbing vitam cretion by gastric mucos tic anemia, glossitis, per havioral changes. These Is are also elevated in vi	pg/mL DECREASED VITAMIN rin, Anti-convulsants, ition ve Harmones rsis yeloma onal function. factor (IF) for absorp in B12 from the ileum a (eg, gastrectomy, gas ripheral neuropathy, manifestations may of tamin B12 deficiency	B12         Colchicine         Colchicine         ion.         and returning it to the liver; very little is         astric atrophy) or intestinal malabsorption (e         weakness, hyperreflexia, ataxia, loss of         accur in any combination; many patients hav

NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





**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 C MD (Pathology Chairman & Co				n Chopra 9 (Pathology) t Pathologist	
NAME	: Mr. NIKHIL SOOD				
AGE/ GENDER	: 35 YRS/MALE	PATI	ENT ID	: 1673435	
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012411160023	
<b>REFERRED BY</b>	:	REGI	STRATION DATE	: 16/Nov/2024 10:22 AM	
BARCODE NO.	: 01520899		ECTION DATE	: 16/Nov/2024 10:29AM	
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		ORTING DATE	: 16/Nov/2024 11:33AM	
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PAT	THOLOGY		
	URINE RO	UTINE & MICROS	COPIC EXAMINA	ATION	
PHYSICAL EXAMIN					
QUANTITY RECIEVI	ED TANCE SPECTROPHOTOMETRY	10	ml		
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		PALE YELLOW		PALE YELLOW	
TRANSPARANCY		CLEAR		CLEAR	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY		1.02		1.002 - 1.030	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
REACTION		ACIDIC			
	TANCE SPECTROPHOTOMETRY				
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
pH		6.5		5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN		Negative		NEGATIVE (-ve)	
	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			NEGATIVE (-ve)	
	NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.				
UROBILINOGEN by DIP STICK/REFLECT	UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		EU/dL	0.2 - 1.0	
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
ASCORBIC ACID		NEGATIVE (-ve	e)	NEGATIVE (-ve)	
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY				
RED BLOOD CELLS		NEGATIVE (-ve	e) /HPF	0 - 3	

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







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



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

NAME	: Mr. NIKHIL SOOD			
AGE/ GENDER	: 35 YRS/MALE	PAT	IENT ID	: 1673435
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012411160023
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 16/Nov/2024 10:22 AM
BARCODE NO.	: 01520899	COL	LECTION DATE	: 16/Nov/2024 10:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 16/Nov/2024 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT1-3/HPF0 - 5EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT0-2/HPFABSENTCRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTABSENTABSENT				
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)CRYSTALSNEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)BACTERIANEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)OTHERSNEGATIVE (-ve)NEGATIVE (-ve)by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENTNEGATIVE (-ve)NEGATIVE (-ve)TRICHOMONAS VAGINALIS (PROTOZOA)ABSENTABSENTABSENT	 1-3	/HPF	0 - 5	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         CASTS       NEGATIVE (-ve)       NEGATIVE (-ve)         by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         BACTERIA       NEGATIVE (-ve)       NEGATIVE (-ve)         by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         OTHERS       NEGATIVE (-ve)       NEGATIVE (-ve)         by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         TRICHOMONAS VAGINALIS (PROTOZOA)       ABSENT       ABSENT	 0-2	/HPF	ABSENT	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT       NEGATIVE (-ve)       NEGATIVE (-ve)         TRICHOMONAS VAGINALIS (PROTOZOA)       ABSENT       ABSENT	 NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT	 NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT	 NEGATIVE (-ve)		NEGATIVE (-ve)	
	 NEGATIVE (-ve)		NEGATIVE (-ve)	
	ABSENT		ABSENT	

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



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

