



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	P	ATIENT ID	: 1119146
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012408200004
<b>REFERRED BY</b>	:	R	EGISTRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	C	OLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 20/Aug/2024 09:01AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS		NESS PANEL: 1.5	
	CON	MPLETE BLOC	DD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		15.4	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB	C) COUNT	5.34 <sup>H</sup>	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUM by CALCULATED BY AU	E (PCV) UTOMATED HEMATOLOGY ANALYZER	46.5	%	40.0 - 54.0
MEAN CORPUSCULAR	R VOLUME (MCV)	87.2	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	28.8	pg	27.0 - 34.0
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER			
	R HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	33	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV)	13.7	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER ON WIDTH (RDW-SD)	44.5	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX		16.33	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13.
GREEN & KING INDEX	K	22.34	RATIO	BETA THALASSEMIA TRAIT:<= 65
by CALCULATED				IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS				
TOTAL LEUCOCYTE CO	JUNT (TLC) BY SF CUBE & MICROSCOPY	9330	/cmm	4000 - 11000
NUCLEATED RED BLO	· /	NIL		0.00 - 20.00
by AUTOMATED 6 PAR MICROSCOPY	T HEMATOLOGY ANALYZER &			
NUCLEATED RED BLO		NIL	%	< 10 %
by AUTOMATED 6 PAR MICROSCOPY	T HEMATOLOGY ANALYZER &			
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>			

57  $\sim 10^{-10}$ 



**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







Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. BALVIR SINGH AGE/ GENDER : 39 YRS/MALE **PATIENT ID** :1119146 :012408200004 **COLLECTED BY** REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 20/Aug/2024 07:16 AM **BARCODE NO.** :01515332 **COLLECTION DATE** : 20/Aug/2024 08:51AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 20/Aug/2024 09:01AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 71<sup>H</sup> % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 23 20 - 40 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % **EOSINOPHILS** 1 - 61 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 6624 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2146 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 93 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 466 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 281000 150000 - 450000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.37<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE **MEAN PLATELET VOLUME (MPV)** 13<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 137000<sup>H</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 48.5<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.4 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

Dr. Vinay Chopra

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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 Ch</b> MD (Pathology & Chairman & Con		Dr. Yugam C MD (Pa CEO & Consultant Pa	athology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	PATIE	NT ID	: 1119146
COLLECTED BY	:	REG. N	O./LAB NO.	: 012408200004
<b>REFERRED BY</b>	:	<b>REGIS</b>	<b>FRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	COLLE		: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	<b>RTING DATE</b>	: 20/Aug/2024 02:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOG	LOBIN (HBA1C)	
GLYCOSYLATED HAEM( WHOLE BLOOD by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):	5.5	%	4.0 - 6.4
ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION:	PLASMA GLUCOSE IANCE LIQUID CHROMATOGRAPHY)	111.15	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAE	ETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED H	EMOGLOGIB (HBAIC) in %	
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 – 6.4	
Dia	gnosing Diabetes		>= 6.5	
		٨٩٥	> 19 Years	

#### 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

Age < 19 Years

Actions Suggested:

Goal of therapy

>8.0

<7.5

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.





Therapeutic goals for glycemic control

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

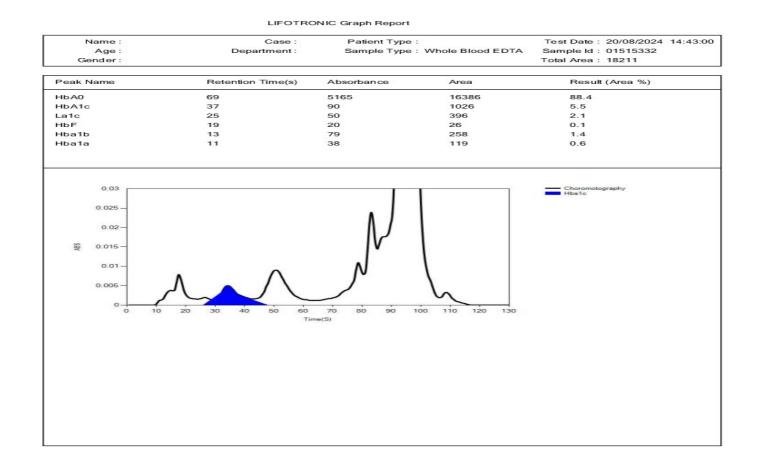


Page 3 of 24





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbio Chairman & Consultant Pa	ology) MD	n Chopra D (Pathology) t Pathologist
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012408200004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	<b>COLLECTION DATE</b>	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 20/Aug/2024 02:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	lue Unit	Biological Reference interval





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

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

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

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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Cho</b> MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	РАТ	IENT ID	: 1119146
COLLECTED BY	:	REG	. NO./LAB NO.	: 012408200004
REFERRED BY	:	REG	ISTRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332		LECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 20/Aug/2024 09:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	FRYTHR	OCYTE SEDIMEN	TATION RATE (ESF	2)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affer as C-reactive protein 3. This test may also l systemic lupus erythe CONDITION WITH LOV A low ESR can be see	MENTATION RATE (ESR) <i>GREN AUTOMATED METHOD</i> ic test because an elevated result of does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus <b>N ESR</b> n with conditions that inhibit the n	3 often indicates the p er exactly where the iflammation. For thi y and response to th normal sedimentatic	mm/1st hi resence of inflammati inflammation is in the s reason, the ESR is typ erapy in both of the at n of red blood cells, su	r 0 - 20 on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as
IOTE: . ESR and C - reactive . Generally, ESR doe e. CRP is not affected . If the ESR is elevate . Women tend to ha . Drugs such as dext	e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CR <b>by as many other factors as is ESR</b> , ed, it is typically a result of two typ ve a higher ESR, and menstruation ran, methyldopa, oral contraceptive d quinine may decrease it	of inflammation. P, either at the start <b>making it a better n</b> bes of proteins, glob and pregnancy can (	harker of inflammation ulins or fibrinogen. cause temporary elevat	
		A.		



an

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







	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	PA	ATIENT ID	: 1119146
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 012408200004
REFERRED BY	:	RI	EGISTRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	:01515332	CC	DLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 20/Aug/2024 10:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
GLUCOSE FASTING ( by glucose oxidas	SE - PEROXIDASE (GOD-POD)	106.75 <sup>H</sup>	mg/dL	PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
<u>INTERPRETATION</u> IN ACCORDANCE WIT	HAMERICAN DIABETES ASSOCIA lucose level below 100 mg/dl is lucose level between 100 - 125	considered normal. mg/dl is considered a	as glucose intolerant or	prediabetic. A fasting and post-prandial blood
1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g	ion of 75 gms of glucose) is reco	is highly suggestive of	of diabetic state. A repe	at post-prandial is strongly recommended for al atory for diabetic state.
1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g	ion of 75 gms of glucose) is reco lucose level of above 125 mg/dl	is highly suggestive of	of diabetic state. A repe	at post-prandial is strongly recommended for al atory 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: 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 6 of 24





		y & Microbiology)	Dr. Yugam MD O & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	PATIENT 1	D	: 1119146
COLLECTED BY	:	REG. NO./	LAB NO.	: 012408200004
REFERRED BY	:	REGISTRA	TION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	:01515332	COLLECTI	ON DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	NG DATE	: 20/Aug/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE : BA	SIC	
CHOLESTEROL TOTA by CHOLESTEROL O		260.66 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	551.36 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBIT		61.76	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		NOT CALCULATED	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spi		198.9 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		NOT CALCULATED	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI by CALCULATED, SPE	M	NOT CALCULATED	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	4.22	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by calculated, spe		NOT CALCULATED	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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
 www.koshealthcare.com



Page 7 of 24





	Dr. Vinay Ch MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE		PATIENT ID	: 1119146
COLLECTED BY	:		REG. NO./LAB NO.	: 012408200004
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	:01515332		COLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 20/Aug/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	8.93 <sup>H</sup>	RATIO	3.00 - 5.00
NOTE 2			IGLYCERIDES VALUE >400 NOT RELIABLE	mg/dL THE CALCULATED VALUES OF LDL A

# ADVICE

### **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.

KINDLY CORRELATE CLINICALLY

 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.
 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. Yugam Chopra

	MD (Pathology & I Chairman & Const	Microbiology)	MD CEO & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	I	PATIENT ID	: 1119146
COLLECTED BY	:	I	REG. NO./LAB NO.	: 012408200004
<b>REFERRED BY</b>	:	I	REGISTRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	:01515332		COLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Aug/2024 11:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT			. 20/ 14g/ 202 1 11.20/141
CLIENT ADDRESS	. 05457 I, MEHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
		FR FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM	0.61	mg/dL	INFANT: 0.20 - 8.00
		0.1/		ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT	C (UNCONJUGATED): SERUM	0.45	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	38.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM	YRIDOXAL PHOSPHATE	103.5 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE	M	0.37	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		98.43	U/L	40.0 - 130.0
	L TRANSFERASE (GGT): SERUM PHTOMETRY	100.58 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	7.27	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.51	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.76	gm/dL	2.30 - 3.50
		4.40	DATIO	1 00 0 00

Dr. Vinay Chopra

A : G RATIO: SERUM 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)

1.63





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

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

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** CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

RATIO

1.00 - 2.00



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012408200004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	<b>COLLECTION DATE</b>	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 20/Aug/2024 11:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Valu	e 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).

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 Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	PA	TIENT ID	: 1119146
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012408200004
<b>REFERRED BY</b>			GISTRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332		LLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 20/Aug/2024 11:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			. 20/11ag/ 2021 11.20/141
Test Name		Value	Unit	Biological Reference interval
	кі	DNEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		40.3	mg/dL	10.00 - 50.00
-	NATE DEHYDROGENASE (GLDH)		· · ·	
CREATININE: SERUN		0.45	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC BLOOD UREA NITRC		18.83	mg/dL	7.0 - 25.0
by CALCULATED, SPE		10.00	ing/ dE	7.0 23.0
BLOOD UREA NITRO	GEN (BUN)/CREATININE	41.84 <sup>H</sup>	RATIO	10.0 - 20.0
RATIO: SERUM				
UREA/CREATININE F	ECTROPHOTOMETRY RATIO: SERLIM	89.56	RATIO	
by CALCULATED, SPE		07.30	RATIO	
URIC ACID: SERUM		5.47	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE	0.05	<i>.</i>	0.50 40 40
CALCIUM: SERUM by ARSENAZO III, SPE		9.95	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		4.17	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY			2.00
ELECTROLYTES				
SODIUM: SERUM		142.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUM		4.2	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	E ELECTRODE)	107.18	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)	107.10	minul/L	70.0 - 110.0
	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	137.4		
(eGFR): SERUM				
by CALCULATED				

# **INTERPRETATION:**

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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

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

Page 11 of 24

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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





	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con		m Chopra D (Pathology) nt Pathologist
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
COLLECTED BY		<b>REG. NO./LAB NO.</b>	: 012408200004
REFERRED BY	•	REGISTRATION DATE	: 20/Aug/2024 07:16 AM
	: 01515332	COLLECTION DATE	
BARCODE NO.			: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Aug/2024 11:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
<ol> <li>Acute tubular necr</li> <li>Low protein diet at</li> </ol>	nd starvation.		
<ol> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Nhenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> </ol>	Acreased urea synthesis. (urea rather than creatinine diffu- imonemias (urea is virtually abse- of inappropiate antidiuretic harm <b>10:1) WITH INCREASED CREATININ</b> py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio).	ent in blood). ione) due to tubular secretion of urea. <b>JE:</b> eatine to creatinine). crease in creatinine with certain methodo	logies,resulting in normal ratio when dehydrati
<ol> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin thei</li> </ol>	Acreased urea synthesis. (urea rather than creatinine diffu- monemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE:	ent in blood). none) due to tubular secretion of urea. <b>JE:</b> eatine to creatinine). crease in creatinine with certain methodo neasurement).	logies,resulting in normal ratio when dehydrati
<ol> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Nhenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin their</li> <li>ESTIMATED GLOMERI</li> <li>CKD STAGE</li> </ol>	Acreased urea synthesis. (urea rather than creatinine diffu- imonemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION	ent in blood). Hone) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo heasurement). GFR ( mL/min/1.73m2 )	ISSOCIATED FINDINGS
<ol> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Thenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin their</li> <li>ESTIMATED GLOMERI</li> <li>CKD STAGE</li> <li>G1</li> </ol>	Acreased urea synthesis. (urea rather than creatinine diffu- monemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: 	ent in blood). ione) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo neasurement). GFR (mL/min/1.73m2) Fion >90	ISSOCIATED FINDINGS No proteinuria
<ol> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>Should produce an in</li> <li>Cephalosporin the</li> <li>CETIMATED GLOMERI</li> <li>CKD STAGE</li> </ol>	Acreased urea synthesis. (urea rather than creatinine diffu- imonemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION	ent in blood). ione) due to tubular secretion of urea. <b>JE:</b> eatine to creatinine). crease in creatinine with certain methodo neasurement). <u>GFR ( mL/min/1.73m2 )</u> th >90 th >90	ISSOCIATED FINDINGS

G2	Kidney damage with	>90	Presence of Protein
	normal or high GFR		Albumin or cast in ur
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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

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







	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
COLLECTED BY	:	REG. NO./LAB NO.	: 012408200004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	COLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 20/Aug/2024 11:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT	
<u> </u>			
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







	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	PATI	ENT ID	: 1119146
<b>COLLECTED BY</b>	:	REG. I	NO./LAB NO.	: 012408200004
<b>REFERRED BY</b>	:	REGIS	TRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	COLL	ECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Aug/2024 11:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PROF	ILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	96.6	μg/dL	59.0 - 158.0
:SERUM	N BINDING CAPACITY (UIBC)	244	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDIN :SERUM	G CAPACITY (TIBC)	340.6	μg/dL	230 - 430
by SPECTROPHOTOM %TRANSFERRIN SAT by CALCULATED, SPE		28.36	%	15.0 - 50.0
TRANSFERRIN: SERL by SPECTROPHOTOM INTERPRETATION:-		241.83	mg/dL	200.0 - 350.0
VARIAR			I DEFICIENCY ANEMIA	Δ ΤΗΔΙΔSSEMIA α/β ΤΒΔΙΤ

1/4 0/4 0/ 50			
VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON: Normal to Reduced		Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON.			

IRON:

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

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

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

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





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

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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE		PATIENT ID	: 1119146
COLLECTED BY	:		REG. NO./LAB NO.	: 012408200004
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332		COLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 20/Aug/2024 12:22PM
Test Name			Unit	Biological Reference interval
	THYR	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM iescent microparticle immunoassay)	1.065	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoassay)	9.13	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels betwo	een 2-4 a.m a Julates the pr	roduction and secretion of the me	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

#### LIMITATIONS:-

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

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

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

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

TRIIODOTHY	(RONINE (T3)	THYROXINE (T4)		THYROID STIMUL	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range ( μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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

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



Page 15 of 24





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbi Chairman & Consultant Pa	ology) MD	n Chopra D (Pathology) It Pathologist
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 012408200004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	:01515332	<b>COLLECTION DATE</b>	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 20/Aug/2024 12:22PM
<b>CLIENT ADDRESS</b>	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	alue Unit	Biological Reference interval

rest warne			value	Unit	•	Biological Reference Interv
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREC	SNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

# INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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

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 & Microb Chairman & Consultant F	iology) MD	n Chopra D (Pathology) ht Pathologist
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012408200004
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	<b>COLLECTION DATE</b>	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 20/Aug/2024 09:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	V	alue Unit	Biological Reference interval

# HEPATITIS C VIRUS (HCV) ANTIBODIES SCREENING

HEPATITIS C ANTIBODY (HCV) TOTAL RESULT

**NON - REACTIVE** 

by IMMUNOCHROMATOGRAPHY

### **INTERPRETATION:**

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

1. Anti HCV total antibody assay identifies presence IgG antibodies in the serum. It is a useful screening test with a specificity of nearly 99%. 2. It becomes positive approximately 24 weeks after exposure. The test can not isolate an active ongoing HCV infection from an old infection that has been cleared. All positive results must be confirmed for active disease by an HCV PCR test .

FALSE NEGATIVE RESULTS SEEN IN: 1.Window period

2.Immunocompromised states.





**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







: Mr. BALVIR SINGH			
: 39 YRS/MALE		PATIENT ID	: 1119146
:		REG. NO./LAB NO.	: 012408200004
:		<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
:01515332		<b>COLLECTION DATE</b>	: 20/Aug/2024 08:51AM
: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 20/Aug/2024 09:40AM
: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
	Value	Unit	Biological Reference interval
ANTI HUMAN IMMUNOD	EFICIENCY VIRU	JS (HIV) ANTIBODIES H	HIV (1 & 2) SCREENING
TIGEN RESULT	NON - REA		
	MD (Pathology & Chairman & Cor : Mr. BALVIR SINGH : 39 YRS/MALE : : : 01515332 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	: Mr. BALVIR SINGH : 39 YRS/MALE : : 01515332 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value ANTI HUMAN IMMUNODEFICIENCY VIRU	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mr. BALVIR SINGH : 39 YRS/MALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 01515332 COLLECTION DATE : 01515332 COLLECTION DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 6349/1, NICHOLSON ROAD, AMBALA CANTT ANTI HUMAN IMMUNODEFICIENCY VIRUS (HIV) ANTIBODIES F

3. The test is used for routine serologic screening of patients at risk for HIV-1 or HIV-2 infection.

4.All screening ELISA assays for HIV antibody detection have high sensitivity but have low specificity.

5.At this laboratory, all positive samples are cross checked for positivity with two alternate assays prior to reporting.

# NOTE:-

1.Confirmatory testing by Western blot is recommended for patients who are reactive for HIV by this assay.

2. Antibodies against HIV-1 and HIV-2 are usually not detectable until 6 to 12 weeks following exposure (window period) and are almost always detectable by 12 months.

3. The test is not recommended for children born to HIV infected mothers till the child turns two years old (as HIV antibodies may be transmitted passively to the child trans-placentally).

# FALSE NEGATIVE RESULT SEEN IN:

# 1. Window period

2.Severe immuno-suppression including advanced AIDS.





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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology) MD	(Pathology)
NAME	: Mr. BALVIR SINGH		
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID	: 1119146
COLLECTED BY	:	REG. NO./LAB NO.	: 012408200004
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332	COLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 20/Aug/2024 09:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
Test Name		Value Unit	Biological Reference interval

# HEPATITIS B SURFACE ANTIGEN (HBsAg) SCREENING

HEPATITIS B SURFACE ANTIGEN (HBsAg)

NON REACTIVE

#### RESULT by IMMUNOCHROMATOGRAPHY

# **INTERPRETATION:-**

1.HBsAG is the first serological marker of HBV infection to appear in the blood (approximately 30-60 days after infection and prior to the onset of clinical disease). It is also the last viral protein to disappear from blood and usually disappears by three months after infection in self limiting acute Hepatitis B viral infection.

2.Persistence of HBsAg in blood for more than six months implies chronic infection. It is the most common marker used for diagnosis of an acute Hepatitis B infection but has very limited role in assessing patients suffering from chronic hepatitis.

# FALSE NEGATIVE RESULT SEEN IN:

# 1.Window period.

2. Infection with HBsAg mutant strains

3.Hepatitis B Surface antigen (HBsAg) is the earliest indicator of HBV infection. Usually it appears in 27 - 41 days (as early as 14 days). 4.Appears 7 - 26 days before biochemical abnormalities. Peaks as ALT rises. Persists during the acute illness. Usually disappears 12- 20 weeks after the onset of symptoms / laboratory abnormalities in 90% of cases.

5.Is the most reliable serologic marker of HBV infection. Persistence > 6 months defines carrier state. May also be found in chronic infection. Hepatitis B vaccination does not cause a positive HBsAg. Titers are not of clinical value.

# NOTE:-

1.All reactive HBsAG Should be reconfirmed with neutralization test(HBsAg confirmatory test).

2.Anti - HAV IgM appears at the same time as symptoms in > 99% of cases, peaks within the first month, becomes nondetectable in 12 months (usually 6 months). Presence confirms diagnosis of recent acute infection.





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

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







Dr. Vinay Chop MD (Pathology & Mid Chairman & Consult		& Microbiology)	icrobiology) MD (Pathology)		
NAME	: Mr. BALVIR SINGH				
AGE/ GENDER	: 39 YRS/MALE	PATIEN	NT ID	: 1119146	
COLLECTED BY	:	REG. N	0./LAB NO.	<b>: 012408200004</b> : 20/Aug/2024 07:16 AM : 20/Aug/2024 08:51AM	
<b>REFERRED BY</b>	:	REGIST	<b>RATION DATE</b>		
BARCODE NO.	: 01515332	COLLE	CTION DATE		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 20/Aug/2024 09:40AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		VDRL			
VDRL		NON REACTIVE		NON REACTIVE	
by IMMUNOCHROMAT INTERPRETATION:	UGRAPHY				
1.Does not become p	oositive until 7 - 10 days after a	ppearance ofchancre.			
2.High titer (>1:16) - 3.Low titer (<1:8) - bi	active disease. iological falsepositive test in 90	% cases or due to late or lat	e latent syphillis.		
4.Treatment of prima	ary syphillis causes progressive	decline tonegative VDRL w	ithin 2 years.		
	licates relapse, reinfection, or tr e in early primary, late latent, a				
	ly reactive tests should always l			emal antibody absorptiontest).	
SHORTTERM FALSE P	OSITIVE TEST RESULTS (<6 MON	THS DURATION) MAY OCCUF	RIN:		
1.Acute viral illnesse	s (e.g., hepatitis, measles, infe				
2.M. pneumoniae; C 3.Some immunizatio	hlamydia; Malaria infection. ns				
4.Pregnancy (rare)					

### LONGTERM FALSE POSITIVE TEST RESULTS (>6 MONTHS DURATION) MAY OCCUR IN:

- 1. Serious underlying disease e.g., collagen vascular diseases, leprosy, malignancy.
- 2.Intravenous drug users.
- 3. Rheumatoid arthritis, thyroiditis, AIDS, Sjogren's syndrome.
- 4.<10 % of patients older thanage 70 years.





**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.

5.Patients taking some anti-hypertensive drugs.



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



IAME	: Mr. BALVIR SINGH			
AGE/ GENDER	: 39 YRS/MALE	PA	TIENT ID	: 1119146
COLLECTED BY			EG. NO./LAB NO.	: 012408200004
REFERRED BY	•		EGISTRATION DATE	: 20/Aug/2024 07:16 AM
BARCODE NO.	: 01515332		OLLECTION DATE	: 20/Aug/2024 08:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 20/Aug/2024 12:22PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, J	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITAN	<b>/INS</b>	
	VIT	AMIN D/25 HYD	ROXY VITAMIN D3	
	DROXY VITAMIN D3): SERUM NESCENCE IMMUNOASSAY)	18.3 <sup>L</sup>	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:		. 20		~ /ml
	ICIENT:	< 20 21 - 29		g/mLg/mL
PREFFER	ED RANGE: ICATION:	30 - 100 > 100	n	j/mL j/mL
issue and tightly bo 3. Vitamin D plays a p 3. Severe deficiency r DECREASED: 1. Lack of sunshine ep 2. Inadeguate intake 3. Depressed Hepatic	und by a transport protein while primary role in the maintenance of tion, skeletal calcium deposition, may lead to failure to mineralize of xposure. , malabsorption (celiac disease) : Vitamin D 25- hydroxylase activi nced Liver disease Secondary Hyperparathroidism (N	in circulation. of calcium homeosta calcium mobilizatio newly formed osteo ty Aild to Moderate de	atis. It promotes calciun n, mainly regulated by p id in bone, resulting in r ficiency)	port form of Vitamin D, being stored in adipos n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism.





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 21 of 24





	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con		crobiology) MD (Pathology)		
NAME	: Mr. BALVIR SINGH				
AGE/ GENDER	: 39 YRS/MALE	PATIENT ID		: 1119146	
COLLECTED BY		RI	EG. NO./LAB NO.	: 012408200004	
REFERRED BY			EGISTRATION DATE	: 20/Aug/2024 07:16 AM	
				0	
BARCODE NO.	: 01515332		DLLECTION DATE	: 20/Aug/2024 08:51AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 20/Aug/2024 12:22PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM	VITAMIN B12/ 267 SSAY)	<b>/COBALAMIN</b> pg/mL	190.0 - 890.0	
	ED VITAMIN B12		DECREASED VITAMIN	V B12	
1.Ingestion of Vitamin C		1.Pregnanc			
2.Ingestion of Estro			spirin, Anti-convulsants	, Colchicine	
3.Ingestion of Vitam 4.Hepatocellular in		3.Ethanol I	pestion ptive Harmones		
5.Myeloproliferativ		5.Haemodi			
6.Uremia		6. Multiple			
	amin) is necessary for hematopo		uronal function. sic factor (IF) for absorp	tion	





**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 Ch</b> MD (Pathology & Chairman & Con			
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. BALVIR SINGH</b> : 39 YRS/MALE : : : 01515332 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	REGISTI COLLEC REPORT	F ID ./LAB NO. RATION DATE FION DATE TNG DATE	: 1119146 <b>: 012408200004</b> : 20/Aug/2024 07:16 AM : 20/Aug/2024 08:51AM : 20/Aug/2024 11:20AM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINA		CLINICAL PATHO		TION
COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 PALE YELLOW CLEAR >=1.030	ml	PALE YELLOW CLEAR 1.002 - 1.030
PROTEIN	TANCE SPECTROPHOTOMETRY	ACIDIC Negative		NEGATIVE (-ve)
рН	TANCE SPECTROPHOTOMETRY	Negative 6 NEGATIVE		NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve)
NITRITE by DIP STICK/REFLEC UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Negative Normal	EU/dL	NEGATIVE (-ve) 0.2 - 1.0
KETONE BODIES by DIP STICK/REFLEC BLOOD	TANCE SPECTROPHOTOMETRY	Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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

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







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



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

NAME	: Mr. BALVIR SINGH				
AGE/ GENDER	: 39 YRS/MALE	PATIE	INT ID	: 1119146	
COLLECTED BY	BY :		IO./LAB NO.	: <b>012408200004</b> : 20/Aug/2024 07:16 AM	
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>			
<b>BARCODE NO.</b> : 01515332		COLLECTION DATE		: 20/Aug/2024 08:51AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Aug/2024 11:20AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON G	CENTRIFUGED URINARY SEDIMENT	0.3	/HPF	0 - 5	
EPITHELIAL CELLS		1-2	/HPF	ABSENT	

EPTI HELIAL GELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS 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) by microscopy on centrifuged urinary sediment	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

