



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	Microbiology) MD (Pathology)		
NAME	: Mr. ROHAN SINDHWANI			
AGE/ GENDER	: 28 YRS/MALE	P	ATIENT ID	: 1574683
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012408080056
REFERRED BY	:	R	EGISTRATION DATE	: 08/Aug/2024 01:45 PM
BARCODE NO.	: 01514730		OLLECTION DATE	: 08/Aug/2024 01:46PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	:08/Aug/202402:10PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	ALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WFI I	NESS PANEL: 1.5	
			DD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		14.7	gm/dL	12.0 - 17.0
by CALORIMETRIC		4.02		
RED BLOOD CELL (RB by HYDRO DYNAMIC F	C) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.92	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUM		44.8	%	40.0 - 54.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	91	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	20.0		27.0.24.0
	R HAEMOGLOBIN (MCH)	29.8	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	32.8	g/dL	32.0 - 36.0
	UTOMATED HEMATOLOGY ANALYZER ION WIDTH (RDW-CV)	14	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.5	fL	35.0 - 56.0
MENTZERS INDEX		18.5	RATIO	BETA THALASSEMIA TRAIT: < 13.
by CALCULATED	Y	25.83	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED	^	23.03	KATIO	65.0
				IRON DEFICIENCY ANEMIA: > 65.
WHITE BLOOD CELLS				
TOTAL LEUCOCYTE CO	DUNT (TLC) By sf cube & microscopy	6590	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLO	OD CELLS (nRBCS) % utomated hematology analyzer &	NIL	%	< 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: Ilnd 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.





MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

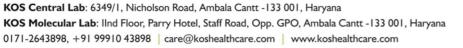
Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	60	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES by flow cytometry by sf cube & microscopy	8	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3954	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1845	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	264	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	527	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	275000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.29	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	81000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	29.2	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.5	%	15.0 - 17.0





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

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









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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 08/Aug/2024 04:57PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Test News		Mahar	11-24	Distantial Defenses interest
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD	MOGLOBIN (HbA1c):	COSYLATED HAEMO(6.5 ^H	%	4.0 - 6.4
ESTIMATED AVERAG	DRMANCE LIQUID CHROMATOGRAPHY E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	139.8	mg/dL	60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOCIATION (ADA):	
	AS PER AMERICAN REFERENCE GROUP		ADA): ATED HEMOGLOGIB	(HBAIC) in %
				(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		ATED HEMOGLOGIB <5.7 5.7 – 6.4	(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years		ATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOSYI	ATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years	
Non di A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	GLYCOSYI	ATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years apy:	< 7.0
Non di A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLYCOSYI	ATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years apy:	

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

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

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

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

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



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT



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ARCODE NO.	: 01514730		COLLECTION DATE	: 08/Aug/2024 01:46PM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Aug/2024 03:14PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SED	IMENTATION RATE (ES	R)
RYTHROCYTE SEDI	MENTATION RATE (ESR)	9	mm/1st h	nr 0 - 20
is sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dex	le cell anaemia) also lower the ES re protein (C-RP) are both markers es not change as rapidly as does C I by as many other factors as is ESF red, it is typically a result of two ty we a higher ESR, and menstruation	SR. s of inflammatic RP, either at th R, making it a b ypes of protein: n and pregnanc	on. le start of inflammation or a: etter marker of inflammatior s, globulins or fibrinogen. ex can cause temporary eleva	n.
	an	_	Chopra	

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

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:08/Aug/202401:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ICAL CHEMISTO	Y/BIOCHEMISTR	Y
	CLIN	ICAL CHEIVIISTR	T/ DIOGHEIWIIJIK	-
	CLIN	GLUCOSE FA		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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Page 5 of 19





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TOTA	L: SERUM	169.93	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP			BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER	UM HATE OXIDASE (ENZYMATIC)	97.08	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199
by deriver moor mare				HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBITI		40.35	mg/dL	LOW HDL: < 30.0
by SELECTIVE INITIDITI				BORDERLINE HIGH HDL: 30.0 - 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: S		110.16	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CIROPHOIOMEIRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159
				HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLESTE		129.58	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CIROPHOTOMETRY			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		19.42	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN		436.94	mg/dL	350.00 - 700.00
by CALCULATED, SPE	CTROPHOTOMETRY			
CHOLESTEROL/HDL F by CALCULATED, SPE		4.21	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	UM ctrophotometry	2.73	RATIO	LOW RISK: 0.50 - 3.0
				MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.41 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

 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





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REPORTING DATE

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CEO & Consultant Pathologist

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mr. ROHAN SINDHWANI : 28 YRS/MALE **PATIENT ID** : SURJESH REG. NO./LAB NO. **REGISTRATION DATE** :

BARCODE NO. :01514730 CLIENT CODE. : KOS DIAGNOSTIC LAB

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
LIVI	ER FUNCTION TEST	Г (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.89	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.27	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.62	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	26.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	55.6 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.48	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	91.23	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	131.63 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.61	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.98	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	2.63	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED. SPECTROPHOTOMETRY	1.51	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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NAME

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				/
Test Name		Value	Unit	Biological Reference interval

DECREASED:

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

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

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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MD (Pathology)

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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. ROHAN SINDHWANI AGE/ GENDER : 28 YRS/MALE **PATIENT ID COLLECTED BY** : SURJESH REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** :01514730 CLIENT CODE. : KOS DIAGNOSTIC LAB **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value

:08/Aug/2024 01:45 PM **COLLECTION DATE** :08/Aug/202401:46PM **REPORTING DATE** :08/Aug/202401:55PM Unit **Biological Reference interval KIDNEY FUNCTION TEST (COMPLETE)**

UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	23.77	mg/dL	10.00 - 50.00	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	0.92	mg/dL	0.40 - 1.40	
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	11.11	mg/dL	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	12.08	RATIO	10.0 - 20.0	
UREA/CREATININE RATIO: SERUM by calculated, spectrophotometry	25.84	RATIO		
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	4.21	mg/dL	3.60 - 7.70	
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.72	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry	4.26	mg/dL	2.30 - 4.70	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	141.3	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.26	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	105.98	mmol/L	90.0 - 110.0	
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM	116.2			

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.



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)

NAME

Test Name





		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)	Dr. Yugan MD CEO & Consultan	(Pathology)	
IAME	: Mr. ROHAN	I SINDHWANI				
GE/ GENDER	: 28 YRS/MA	LE	РА	FIENT ID	: 1574683	
COLLECTED BY	: SURJESH			G. NO./LAB NO.	: 012408080056	
	. SUMESH					5 DM
REFERRED BY	:			GISTRATION DATE	: 08/Aug/2024 01:4	
BARCODE NO.	:01514730			LLECTION DATE	:08/Aug/202401:40	
LIENT CODE.	: KOS DIAGN	OSTIC LAB	RE	PORTING DATE	: 08/Aug/2024 01:5	5PM
LIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMBA	ALA CANTT			
Test Name			Value	Unit	Biological	Reference interval
2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar	10:1) WITH DEC					
5. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy.	nd starvation. e. creased urea s jurea rather the monemias (ure of inappropiate	ynthesis. an creatinine diffuses o ea is virtually absent in antidiuretic harmone) o	blood).	·		
 Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin thei 	nd starvation. e. creased urea s urea rather the monemias (ure of inappropiate 10:1) WITH INCI py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes	ynthesis. an creatinine diffuses o ea is virtually absent in antidiuretic harmone) o REASED CREATININE: s conversion of creatine e creatinine). enal failure. tte causes false increase reatinine ratio). with creatinine measu	blood). due to tubular s to creatinine). e in creatinine v	ecretion of urea.	ogies,resulting in norma	Il ratio when dehydratior
 Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin thera STIMATED GLOMERL 	nd starvation. e. creased urea s urea rather the monemias (ure of inappropiate 10:1) WITH INCI py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes	ynthesis. an creatinine diffuses o ea is virtually absent in antidiuretic harmone) o REASED CREATININE: s conversion of creatine creatinine). enal failure. tte causes false increase reatinine ratio). with creatinine measur DN RATE:	blood). due to tubular s to creatinine). e in creatinine v rement).	ecretion of urea. vith certain methodolo		Il ratio when dehydration
A. Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (DECREASED RATIO (Rhabdomyolysis (r Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	nd starvation. e. creased urea s urea rather the monemias (ure of inappropiate 10:1) WITH INCI py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes JLAR FILTERATI	ynthesis. an creatinine diffuses o ea is virtually absent in antidiuretic harmone) REASED CREATININE: conversion of creatine creatinine). enal failure. te causes false increase reatinine ratio). with creatinine measur DR RATE: DESCRIPTION	blood). due to tubular s to creatinine). e in creatinine v rement). GFR (mL/r	ecretion of urea. vith certain methodolo	SOCIATED FINDINGS	Il ratio when dehydratior
 Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin thera STIMATED GLOMERL 	nd starvation. e. creased urea s urea rather the monemias (ure of inappropiate 10:1) WITH INCI py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes JLAR FILTERATIO	ynthesis. an creatinine diffuses o ea is virtually absent in antidiuretic harmone) o REASED CREATININE: s conversion of creatine creatinine). enal failure. tte causes false increase reatinine ratio). with creatinine measur DN RATE:	blood). due to tubular s to creatinine). e in creatinine v rement). GFR (mL/r	ecretion of urea. vith certain methodolo nin/1.73m2) AS 90 P	SOCIATED FINDINGS No proteinuria	Il ratio when dehydratior
A. Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1	nd starvation. e. creased urea s urea rather the monemias (ure of inappropiate py (accelerates eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interferes JLAR FILTERATIO	ynthesis. an creatinine diffuses o ea is virtually absent in antidiuretic harmone) REASED CREATININE: conversion of creatine creatinine). enal failure. te causes false increase reatinine ratio). with creatinine measur DRATE: DESCRIPTION	blood). due to tubular s to creatinine). e in creatinine v rement). GFR (mL/r	ecretion of urea. vith certain methodolo nin/1.73m2) AS 90 P	SOCIATED FINDINGS	Il ratio when dehydratior

IVIIIO DECLEASE III GER	00-89
Moderate decrease in GFR	30-59
Severe decrease in GFR	15-29
Kidney failure	<15



G3b G4 G5



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

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









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NAME	: Mr. ROHAN SINDHWANI		
AGE/ GENDER	: 28 YRS/MALE	PATIENT ID	: 1574683
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REFERRED BY	:	REGISTRATION DATE	: 08/Aug/2024 01:45 PM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 08/Aug/2024 01:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
[
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







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Test Name		Value	Unit	Biological Reference interval
		IRON PI	ROFILE	
IRON: SERUM		108.7	μg/dL	59.0 - 158.0
by FERROZINE, SPEC	TROPHOTOMETRY			

IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY	108.7	μg/dL	59.0 - 158.0
UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM	259.7	μg/dL	150.0 - 336.0
by FERROZINE, SPECTROPHOTOMETERY			
TOTAL IRON BINDING CAPACITY (TIBC)	368.4	μg/dL	230 - 430
SERUM			
by SPECTROPHOTOMETERY			
%TRANSFERRIN SATURATION: SERUM by calculated, spectrophotometery (ferene)	29.51	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	261.56	mg/dL	200.0 - 350.0

INTERPRETATION:-

Normal to Reduced	Reduced	Normal
		normai
Decreased	Increased	Normal
Decreased	Decreased < 12-15 %	Normal
Normal to Increased	Decreased	Normal or Increased
	Decreased	Decreased

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







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Test Name		Value	Unit	Biological Reference interval
Test Name		Value		Biological Reference interval
Test Name	TH		DLOGY	Biological Reference interval
		ENDOCRINC	DLOGY	Biological Reference interval 0.35 - 1.93
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS	ENDOCRINC HYROID FUNCTION 0.817 GAY)	DLOGY I TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONINI <i>by cmia (chemilumii</i> THYROXINE (T4): SE	E (T3): SERUM <i>nescent microparticle immunoass</i> RUM	ENDOCRINC HYROID FUNCTION 0.817 6.11	DLOGY I TEST: TOTAL	
TRIIODOTHYRONINI by cmia (chemilumin THYROXINE (T4): SE by cmia (chemilumin	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS RUM NESCENT MICROPARTICLE IMMUNOASS	ENDOCRINC HYROID FUNCTION 0.817 6.11 6.11 SAY)	DLOGY I TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60
TRIIODOTHYRONINI by cmia (chemilumin THYROXINE (T4): SE by cmia (chemilumin THYROID STIMULAT	E (T3): SERUM <i>nescent microparticle immunoass</i> RUM	ENDOCRINC HYROID FUNCTION 0.817 6.11 6.11 5AY) 2.533	DLOGY I TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONINI by cmia (chemilumin THYROXINE (T4): SE by cmia (chemilumin THYROID STIMULAT	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS RUM NESCENT MICROPARTICLE IMMUNOASS TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASS	ENDOCRINC HYROID FUNCTION 0.817 6.11 6.11 5AY) 2.533	DLOGY I TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60

overproduction(hyperthyroidism) of T4 and/or T3.

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

LIMITATIONS:-

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

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

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

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

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





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

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

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







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Test Name Value Unit **Biological Reference interval** 6 - 12 Months 0.74 - 2.40 6 - 12 Months 7.10 - 16.16 6-12 Months 0.70 - 7.00 1 - 10 Years 0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 – 10 Years 0.60 - 5.50 11- 19 Years 0.35 - 1.93 11 - 19 Years 4.87-13.20 11 – 19 Years 0.50 - 5.50 > 20 years (Adults) 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35-5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µIU/mL) 0.10 - 2.50 1st Trimester 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)

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Test Name		Value	Unit	Biological Reference interval	
	v		AMINS YDROXY VITAMIN D3		
by CLIA (CHEMILUMIN	ROXY VITAMIN D3): SERUM VESCENCE IMMUNOASSAY)	28.2 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
<u>NTERPRETATION:</u> DFFI	CIENT:	< 20	r	ng/mL	
	FICIENT:	21 - 29		ng/mL	
	ED RANGE: CATION:	30 - 100 > 100		ng/mL	
conversion of 7- dihy 2.25-OHVitamin D re- tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing dr INCREASED: 1. Hypervitaminosis E severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	drocholecalciferol to Vitamin I epresents the main body resev- und by a transport protein whi rimary role in the maintenance ion, skeletal calcium depositio hay lead to failure to mineraliz posure. malabsorption (celiac disease Vitamin D 25- hydroxylase act iced Liver disease econdary Hyperparathroidism rugs: anti-epileptic drugs like p D is Rare, and is seen only after and hyperphophatemia. In therapy in deficient individu	D3 in the skin upon oir and transport for le in circulation. e of calcium homen n, calcium mobiliza e newly formed osi) ivity (Mild to Moderate henytoin, phenoba r prolonged exposu uals must be monito	Ultraviolet exposure. orm of Vitamin D and trans ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in e deficiency) irbital and carbamazepine, re to extremely high doses ored by periodic assessment	blecalciferol (from animals, Vitamin D3), or by sport form of Vitamin D, being stored in adipose m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent ciency due to excess of melanin pigment which	





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

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 www.koshealthcare.com



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CLIENT ADDRESS	. 0549/ I, MICHOLSON ROAD, A	MDALA CAN I I				
Test Name		Value	Unit	Biological Reference interval		
		VITAMIN B12/CO	DBALAMIN			
IMMUNOASSAY)	LAMIN: SERUM Nescent microparticle	156 ^L	pg/mL	200 - 940		
<u>INTERPRETATION:-</u> INCREAS	ED VITAMIN B12		DECREASED VITAMI	N B12		
1.Ingestion of Vitam		1.Pregnancy				
2.Ingestion of Estrog		2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitamin A		3.Ethanol Igestion				
4.Hepatocellular injury		4. Contraceptive Harmones				
5.Myeloproliferative disorder		5.Haemodialysis				
6.Uremia 1.Vitamin B12 (cobalamin) is necessary for hematopoies		6. Multiple Myeloma				
3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing for NOTE: A normal serun deficiency at the cellu	ncy may be due to lack of IF secre intestinal diseases). ency frequently causes macrocytic coordination, and affective behaves s without macrocytic anemia. nic acid and homocysteine levels a or antibodies to intrinsic factor (IF n concentration of vitamin B12 do	ly, reabsorbing vitami tion by gastric mucos anemia, glossitis, per vioral changes. These are also elevated in vit) is recommended to es not rule out tissue clinical symptoms sug	n B12 from the ileun a (eg, gastrectomy, g ipheral neuropathy, manifestations may amin B12 deficiency identify this potentia deficiency of vitamin	n and returning it to the liver; very little is jastric atrophy) or intestinal malabsorption (eg, weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have		





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

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







	Dr. Vinay Ch MD (Pathology & Chairman & Con	k Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. ROHAN SINDHWANI			
AGE/ GENDER	: 28 YRS/MALE	PATIEN	T ID	: 1574683
COLLECTED BY	: SURJESH	REG. NO)./LAB NO.	: 012408080056
REFERRED BY	:	REGIST	RATION DATE	: 08/Aug/2024 01:45 PM
BARCODE NO.	: 01514730	COLLEC	TION DATE	: 08/Aug/2024 01:46PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 08/Aug/2024 01:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
		OUTINE & MICROSCO		TION
PHYSICAL EXAMINA				
QUANTITY RECIEVE		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	OLL/ III		
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ALKALINE		
	TANCE SPECTROPHOTOMETRY			
PROTEIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
SUGAR	TANCE SPECIROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
pH	TANCE SPECTROPHOTOMETRY	7.5		5.0 - 7.5
BILIRUBIN	TANCE SPECIROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	· · · ·		
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)
UROBILINOGEN		NOT DETECTED	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY			
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
BLOOD		NEGATIVE (-ve)		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
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)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

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

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CLIENT CODE.	: KOS DIAGNOSTIC LAB			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS		NEGATIVE (-ve)		NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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



NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT