



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. AJAY CHOPRA			
AGE/ GENDER	: 61 YRS/MALE		PATIENT ID	: 1552860
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407180032
REFERRED BY	:		REGISTRATION DATE	: 18/Jul/2024 12:05 PM
BARCODE NO.	: 01513372		COLLECTION DATE	: 18/Jul/2024 12:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Jul/2024 12:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA W	ELLNESS PANEL: Y	
	CON	MPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB))	14	gm/dL	12.0 - 17.0
RED BLOOD CELL (RE		5.19 ^H	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUN	FOCUSING, ELECTRICAL IMPEDENCE //E (PCV)	43.7	%	40.0 - 54.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULA by CALCULATED BY A	R VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	84.1	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	26.9 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	32	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV)	14	%	11.00 - 16.00
-	AUTOMATED HEMATOLOGY ANALYZER TION WIDTH (RDW-SD)	44.2	fL	35.0 - 56.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED		16.2	RATIO	BETA THALASSEMIA TRAIT: < 13. IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	22.62	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0
WHITE BLOOD CELLS	S (WBCS)			IRON DEFICIENCY ANEMIA: > 65.
TOTAL LEUCOCYTE C		10320	/cmm	4000 - 11000
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY		, chill	
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) AUTOMATED HEMATOLOGY ANALYZER &	NIL		0.00 - 20.00
NUCLEATED RED BLO	DOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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

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



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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. AJAY CHOPRA NAME AGE/ GENDER : 61 YRS/MALE **PATIENT ID** :1552860 **COLLECTED BY** : SURJESH :012407180032 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 18/Jul/2024 12:05 PM : **BARCODE NO.** :01513372 **COLLECTION DATE** :18/Jul/2024 12:15PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Jul/2024 12:39PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 59 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 33 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS % 2 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 126 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 6089 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 800 - 4900 3406 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 206 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 619 /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) 192000 150000 - 450000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELETCRIT (PCT) 0.26 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE **MEAN PLATELET VOLUME (MPV)** 13^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 46.7^H

16.5

Dr. Vinay Chopra

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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

%



15.0 - 17.0





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Test Name	Val	ue 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
 www.koshealthcare.com







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	COSYLATED HAEMOG	LOBIN (HBA1C)	
GLYCOSYLATED HAEM		/COSYLATED HAEMOG 9.6 ^H	LOBIN (HBA1C) %	4.0 - 6.4
NHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI	OGLOBIN (HbA1c): mance liquid chromatography)			4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI	OGLOBIN (HbA1c): mance liquid chromatography) PLASMA GLUCOSE	9.6 ^H 228.82 ^H	%	
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION:	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	9.6 ^H 228.82 ^H TTES ASSOCIATION (ADA):	% mg/dL EMOGLOGIB (HBAIC) ii	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORI STIMATED AVERAGE by HPLC (HIGH PERFORI NTERPRETATION: RE RE	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years	9.6 ^H 228.82 ^H TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) in <5.7	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORI STIMATED AVERAGE by HPLC (HIGH PERFORI NTERPRETATION: RE Non diab At F	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	9.6 ^H 228.82 ^H TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 – 6.4	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years	9.6 ^H 228.82 ^H TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	9.6 ^H 228.82 ^H TTES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	9.6 ^H 228.82 ^H TES ASSOCIATION (ADA): GLYCOSYLATED H Goals of Therapy:	% mg/dL <5.7 5.7 - 6.4 >= 6.5 => 19 Years <7.0	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	9.6 ^H 228.82 ^H TES ASSOCIATION (ADA): GLYCOSYLATED H Goals of Therapy: Actions Suggested:	% mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years	60.00 - 140.00

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

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

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

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





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

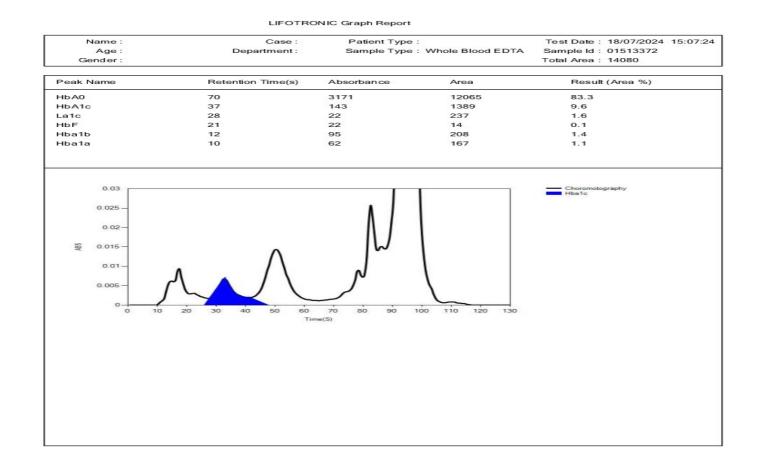
DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







	Dr. Vinay Chop MD (Pathology & Mid Chairman & Consult:	crobiology) MI	m Chopra D (Pathology) nt Pathologist
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Test Name		Value Unit	Biological Reference interval







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NAME	: Mr. AJAY CHOPRA				
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REFERRED BY	:	REG	ISTRATION DATE	: 18/Jul/2024	12:05 PM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REF	ORTING DATE	:18/Jul/2024	01:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biolo	gical Reference interval
	ERYTH	IROCYTE SEDIMEN	ITATION RATE (ES	R)	
ERYTHROCYTE SEDI	MENTATION RATE (ESR)	21 ^H	mm/1st	hr 0 - 2	0

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as devicen, methylicity and contracentives.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
T t N		Value	Unit	Biological Reference interval
Test Name				
	CLIN	ICAL CHEMISTRY/		Y
GLUCOSE FASTING (Y NORMAL: < 100.0

such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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

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50 5001 . 2000 OLAT				
		& Microbiology)	Dr. Yugan MD EO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE : BA	ASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		143.14	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEI by GLYCEROL PHOSE	RUM phate oxidase (enzymatic)	428.37 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		40.52	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		NOT CALCULATED	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spe		102.62	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL by CALCULATED, SPE		NOT CALCULATED	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	NOT CALCULATED	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	3.53	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: SEF 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)

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	10.57 ^H	RATIO	3.00 - 5.00
NOTE 2			GLYCERIDES 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)

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant Pathologist NAME : Mr. AJAY CHOPRA **AGE/ GENDER** : 61 YRS/MALE **PATIENT ID** :1552860 **COLLECTED BY** : SURJESH :012407180032 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 18/Jul/2024 12:05 PM **BARCODE NO.** :01513372 **COLLECTION DATE** :18/Jul/2024 12:15PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Jul/2024 01:16PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.34 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.18 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.16 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM U/L 7.00 - 45.00 74.94^H by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 61.76^H U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 1.21 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 77 U/L 40.0 - 150.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 121^H U/L 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 7.16 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.03 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 3.13 gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY RATIO A : G RATIO: SERUM 1.29 1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

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

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

INCREASED:

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



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

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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant P	iology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mr. AJAY CHOPRA		
AGE/ GENDER	: 61 YRS/MALE	PATIENT ID	: 1552860
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407180032
REFERRED BY	:	REGISTRATION DATE	: 18/Jul/2024 12:05 PM
BARCODE NO.	: 01513372	COLLECTION DATE	: 18/Jul/2024 12:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 18/Jul/2024 01:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT	
Test Name	V	alue Unit	Biological Reference interval

DECREASED:

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

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

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



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 care@koshealthcare.com
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KID		ON TEST (COMPLETE)	
UREA: SERUM		19.06	mg/dL	10.00 - 50.00
-	IATE DEHYDROGENASE (GLDH)		J	
CREATININE: SERUN by ENZYMATIC, SPEC		0.83	mg/dL	0.40 - 1.40
BLOOD UREA NITRO		8.91	mg/dL	7.0 - 25.0
by CALCULATED, SPE	CTROPHOTOMETRY			
	GEN (BUN)/CREATININE	10.73	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		22.96	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS	E PEROXIDASE	6	mg/dL	3.60 - 7.70
CALCIUM: SERUM		8.88	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SER	RUM DATE, SPECTROPHOTOMETRY	4.17	mg/dL	2.30 - 4.70
ELECTROLYTES	ATE, SPECIKOPHOTOMETKT			
Sodium: Serum		142.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.70	mm al /l	
POTASSIUM: SERUN by ISE (ION SELECTIV		4.78	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		106.73	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	99.6		
(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.



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CLIENT ADDRESS	: 6349/1, NICHOLSC			. 18/Jul/ 2024 01.10	r M
Test Name		Valu	e Unit	Biological	Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas	osis. nd starvation.	DON .			
 Acute tubular necr Low protein diet and Severe liver diseas Other causes of ded Repeated dialysis (Inherited hyperam SIADH (syndrome of the syndrome of the syndro	osis. Ind starvation. E. creased urea synthesis urea rather than creat monemias (urea is virt of inappropiate antidiu IO:1) WITH INCREASED py (accelerates conver eleases muscle creatir who develop renal fail : sis (acetoacetate caus	i. inine diffuses out of ually absent in blood retic harmone) due to CREATININE: sion of creatine to cr ine). ure. es false increase in ci). o tubular secretion of urea.	ologies,resulting in norma	ıl ratio when dehydra
 Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin their 	osis. nd starvation. e. creased urea synthesis furea rather than creat monemias (urea is virt of inappropiate antidiu 10:1) WITH INCREASED py (accelerates conver eleases muscle creatir who develop renal fail :	i. inine diffuses out of ually absent in blood retic harmone) due to CREATININE: sion of creatine to cr ine). ure. es false increase in cr e ratio). eatinine measuremei	I). 5 tubular secretion of urea. eatinine). reatinine with certain methodo	ologies,resulting in norma	I ratio when dehydrat
1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (7. SIADH (syndrome of 8. Nuscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin their ESTIMATED GLOMERI CKD STAGE	osis. ad starvation. creased urea synthesis urea rather than creat monemias (urea is virt of inappropiate antidiu 10:1) WITH INCREASED py (accelerates conver eleases muscle creatir who develop renal fail : sis (acetoacetate caus creased BUN/creatinir rapy (interferes with cr JLAR FILTERATION RATE DESC	i. inine diffuses out of ually absent in blood retic harmone) due to CREATININE: sion of creatine to cr ine). ure. es false increase in cr e ratio). eatinine measurements: RIPTION	I). o tubular secretion of urea. eatinine). reatinine with certain methodo nt). SFR (mL/min/1.73m2)	ASSOCIATED FINDINGS	I ratio when dehydrat
1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1	osis. Ind starvation. E. Creased urea synthesis furea rather than creat monemias (urea is virt of inappropiate antidiu IO:1) WITH INCREASED py (accelerates conver eleases muscle creatir who develop renal fail : sis (acetoacetate caus creased BUN/creatinir apy (interferes with cr JLAR FILTERATION RATE DESC Normal ki	i. inine diffuses out of ually absent in blood retic harmone) due to CREATININE: sion of creatine to cr ine). ure. es false increase in cr e ratio). eatinine measuremer RIPTION	l). o tubular secretion of urea. eatinine). reatinine with certain methodo nt). SFR (mL/min/1.73m2) / / >90	ASSOCIATED FINDINGS	Il ratio when dehydrat
 Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERI CKD STAGE 	osis. Ind starvation. E. creased urea synthesis furea rather than creat monemias (urea is virt of inappropiate antidiu IO:1) WITH INCREASED py (accelerates conver eleases muscle creatir who develop renal fail : sis (acetoacetate caus creased BUN/creatinir apy (interferes with cr JLAR FILTERATION RATI DESC Normal kin Kidney d	i. inine diffuses out of ually absent in blood retic harmone) due to CREATININE: sion of creatine to cr ine). ure. es false increase in cr e ratio). eatinine measurements: RIPTION	l). b tubular secretion of urea. eatinine). reatinine with certain methodo ht). SFR (mL/min/1.73m2) / >90 >90	ASSOCIATED FINDINGS	I ratio when dehydrat

	normal or high GFR		Albumin
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 Chopi MD (Pathology & Mic Chairman & Consulta	crobiology) MD	m Chopra D (Pathology) at Pathologist
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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)







	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY CHOPRA			
AGE/ GENDER	: 61 YRS/MALE	P	ATIENT ID	: 1552860
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
		IRON P	ROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	78.3	μg/dL	65.0 - 175.0
by FERROZINE, SPEC	N BINDING CAPACITY (UIBC)	78.3 208.8	μg/dL μg/dL	65.0 - 175.0 150.0 - 336.0
by FERROZINE, SPEC UNSATURATED IRON :SERUM by FERROZINE, SPEC TOTAL IRON BINDIN :SERUM	N BINDING CAPACITY (UIBC) <i>trophotometery</i> G CAPACITY (TIBC)			
by FERROZINE, SPEC UNSATURATED IRON SERUM by FERROZINE, SPEC TOTAL IRON BINDIN SERUM by SPECTROPHOTOM %TRANSFERRIN SAT	N BINDING CAPACITY (UIBC) <i>TROPHOTOMETERY</i> G CAPACITY (TIBC) <i>NETERY</i> URATION: SERUM	208.8	µg/dL	150.0 - 336.0
by FERROZINE, SPEC UNSATURATED IRON :SERUM by FERROZINE, SPEC TOTAL IRON BINDIN :SERUM by SPECTROPHOTOM %TRANSFERRIN SAT	N BINDING CAPACITY (UIBC) TROPHOTOMETERY G CAPACITY (TIBC) METERY URATION: SERUM SCTROPHOTOMETERY (FERENE) IM	208.8 287.1	μg/dL μg/dL	150.0 - 336.0 230 - 430

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.





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Test Name		Value	Unit	Biological Reference interval	
		ENDOCRINO	LOGY		
	TH	ENDOCRINO IVROID FUNCTION			
TRIIODOTHYRONIN		IYROID FUNCTION 1.263		0.35 - 1.93	
TRIIODOTHYRONIN <i>by cmia (chemilumi</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS	1.263 6.84	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
TRIIODOTHYRONIN by cmia (chemilumi THYROXINE (T4): SE by cmia (chemilumi THYROID STIMULA	E (T3): SERUM <i>nescent microparticle immunoass</i> RUM	1.263 6.84	TEST: TOTAL ng/mL		

trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or 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 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.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING 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	





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CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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CLIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD, A	MBALA CANTT			
Test Name			Value	Unit	Biolog	gical Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	

0.74 - 2.40		7.10 - 10.10	6 – 12 Wonths	0.70 - 7.00
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50
RECOM	VENDATIONS OF TSH LE	VELS DURING PREGN	IANCY (μIU/mL)	
1st Trimester			0.10 – 2.50	
2nd Trimester			0.20 - 3.00	
3rd Trimester			0.30 - 4.10	
	0.35 - 1.93 0.35 - 1.93 RECOMI 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREGN 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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





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Test Name		Value	Unit	Biological Reference interval
	IN	IMUNOPATH	OLOGY/SEROLOGY	
		C-REACTIVE	E PROTEIN (CRP)	
C-REACTIVE PROTEIN SERUM by NEPHLOMETRY	N (CRP) QUANTITATIVE:	17.76 ^H	mg/L	0.0 - 6.0

3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant

rejection, and to monitor these inflammatory processes. 4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history. 2. Oral contraceptives may increase CRP levels.





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





	MD (Pathology & Chairman & Con	Microbiology) sultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
IAME	: Mr. AJAY CHOPRA			
AGE/ GENDER	: 61 YRS/MALE	P	ATIENT ID	: 1552860
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012407180032
REFERRED BY	:	R	EGISTRATION DATE	: 18/Jul/2024 12:05 PM
BARCODE NO.	: 01513372	C	DLLECTION DATE	: 18/Jul/2024 12:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 18/Jul/2024 01:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, J	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VITA	MINS	
	VIT		ROXY VITAMIN D3	
/ITAMIN D (25-HYD	ROXY VITAMIN D3): SERUM	54	ng/mL	DEFICIENCY: < 20.0
	ESCENCE IMMUNOASSAY)		3	INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
<u>INTERPRETATION:</u> DEFI	CIENT:	< 20	n	g/mL
INSUF	FICIENT:	21 - 29		g/mL
	ED RANGE:	30 - 100 > 100		g/mL g/mL
INTOX I 1.Vitamin D compou	nds are derived from dietary erac drocholecalciferol to Vitamin D3			





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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com



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		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)		
NAME	: Mr. AJAY CHOPRA					
AGE/ GENDER	: 61 YRS/MALE	P	ATIENT ID	: 1552860		
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012407180032		
REFERRED BY			EGISTRATION DATE	: 18/Jul/2024 12:05 PM		
BARCODE NO.	:01513372		OLLECTION DATE	: 18/Jul/2024 12:15PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 18/Jul/2024 01:43PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
		VITAMIN B12	/COBALAMIN			
VITAMIN B12/COBA by CMIA (CHEMILUMI IMMUNOASSAY) INTERPRETATION:-	LAMIN: SERUM NESCENT MICROPARTICLE	< 83 ^L	pg/mL	190.0 - 890.0		
	ED VITAMIN B12		DECREASED VITAMIN B12			
1.Ingestion of Vitan	nin C	1.Pregnand				
2.Ingestion of Estro 3.Ingestion of Vitan		2.DRUGS:A 3.Ethanol I	spirin, Anti-convulsants	Colchicine		
4.Hepatocellular in						
5.Myeloproliferativ			4. Contraceptive Harmones 5.Haemodialysis			
6.Uremia			6. Multiple Myeloma			
	amin) is necessary for hemato ained only from animal prote	ins and requires intrin	sic factor (IF) for absorp	tion. and returning it to the liver; very little is		





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



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	Dr. Vinay Chop MD (Pathology & Mid Chairman & Consulta	crobiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)	
NAME	: Mr. AJAY CHOPRA				
AGE/ GENDER	: 61 YRS/MALE	PA	ATIENT ID	: 1552860	
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012407180032	
REFERRED BY	•		EGISTRATION DATE	: 18/Jul/2024 12:05 PM	
BARCODE NO.	: 01513372		DLLECTION DATE	: 18/Jul/2024 12:15PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 18/Jul/2024 01:33PM	
			CPURIING DATE	. 18/Jul/2024 01.33PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
TUMOUR MARKER PROSTATE SPECIFIC ANTIGEN (PSA) - TOTAL					
SERUM	ANTIGEN (PSA) - TOTAL: ESCENCE IMMUNOASSAY)	0.41	ng/mL	0.0 - 4.0	
Expected Values for					
Smokers Non-smokers	< 4 ng/ml < 4 ng/ml				
			prostate gland, the lining	of the urethra, and the bulbourethral gland.	
2.Normally, very little	PSA is secreted in the blood.		prootato glana, tro ming		
INCREASED :-					
1.Increased in glandu 2.Prostatitis.	lar size and tissue damage caused b	y benign prosta	tic nypertrophy.		
	y increase circulating PSA levels.				
		SA testing is adv	vocated as an early indica	ator of tumor recurrence and as an indicator of	
response to therapy.					

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

The test is also useful for initial screening for prostate cancer:-

1.Total PSA levels < 2 ng/ml almost rule out the possibility of prostatic malignancy.

2. Total PSA levels between 2 and 10 ng/ml lie in the grey zone. Such values may be obtained in prostatitis, benign hyperplasia and malignancy. Further testing including a free PSA/PSA ratio and prostate biopsy is recommended for these patients for confirmation of the diagnosis. 3. Total PSA values >10 ng/ml are highly suspicious for prostate cancer but further testing, such as prostate biopsy, is needed to diagnose the exact pathology.





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





Dr. Vinay Cl MD (Pathology & Chairman & Cor				(Pathology)
NAME	: Mr. AJAY CHOPRA			
AGE/ GENDER	: 61 YRS/MALE	PA	TIENT ID	: 1552860
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012407180032
REFERRED BY	•		GISTRATION DATE	: 18/Jul/2024 12:05 PM
BARCODE NO.	:01513372		LLECTION DATE	: 18/Jul/2024 12:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 18/Jul/2024 03:57PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 10/ Jul 202 100.011 M
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
			SCOPIC EXAMINAT	
				non
PHYSICAL EXAMINA		10		
QUANTITY RECIEVEI	D CTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLC	W	PALE YELLOW
	TANCE SPECTROPHOTOMETRY			
	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
by DIP STICK/REFLEC PROTEIN	TANCE SPECTROPHOTOMETRY	Negativo		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		1+		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY	<=0.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
,	TANCE SPECTROPHOTOMETRY	Negativo		
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	No. 11		
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve	e)	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. AJAY CHOPRA			
AGE/ GENDER	: 61 YRS/MALE	PATIENT	ID	: 1552860
COLLECTED BY	: SURJESH	REG. NO.	/LAB NO.	: 012407180032
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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD,		/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs)	Value NEGATIVE (-ve)	Unit /HPF	Biological Reference interval 0 - 3
RED BLOOD CELLS (F by MICROSCOPY ON PUS CELLS				3
RED BLOOD CELLS (F by MICROSCOPY ON PUS CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0-3

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CRYSTALS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
CASTS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
BACTERIA	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
OTHERS	NEGATIVE (-ve)	NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		

** 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

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 0171-2643898, +91 99910 43898
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