



Dr. Vinay Cł MD (Pathology & Chairman & Cor		crobiology)		
NAME	: Mr. R.C GUPTA	0		
AGE/ GENDER	: 72 YRS/MALE		PATIENT ID	: 1593871
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408280007
REFERRED BY         :           BARCODE NO.         : 01515842		REGISTRATION DAT		: 28/Aug/2024 08:49 AM
				: 28/Aug/2024 09:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 28/Aug/2024 09:15AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA	ASTHYA WE	ELLNESS PANEL: Y	
	co	MPLETE BLC	DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11.8 <sup>L</sup>	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB		4.41	Millions/cm	nm 3.50 - 5.00
PACKED CELL VOLUM	DCUSING, ELECTRICAL IMPEDENCE E (PCV) UTOMATED HEMATOLOGY ANALYZER	37.6 <sup>L</sup>	%	40.0 - 54.0
MEAN CORPUSCULAR		85.4	fL	80.0 - 100.0
MEAN CORPUSCULAI	R HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	26.7 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.3 <sup>L</sup>	g/dL	32.0 - 36.0
	ON WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	13.4	%	11.00 - 16.00
RED CELL DISTRIBUTI	ON WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	42.7	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		19.37	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	(	25.89	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CO	DUNT (TLC) by sf cube & microscopy	5250	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLO	OD CELLS (nRBCS) % <i>JTOMATED HEMATOLOGY ANALYZER</i>	NIL	%	< 10 %
NEUTROPHILS		68	%	50 - 70





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 Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. R.C GUPTA **AGE/ GENDER** : 72 YRS/MALE **PATIENT ID** :1593871 **COLLECTED BY** : SURJESH :012408280007 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 28/Aug/2024 08:49 AM : **BARCODE NO.** :01515842 **COLLECTION DATE** : 28/Aug/2024 09:04AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :28/Aug/2024 09:15AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 MONOCYTES % 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 3570 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 1050 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 158 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 472 /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. 174000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.2 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 11 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 58000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 33.5 11.0 - 45.0 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.2 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

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 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		-
Test Name		Value	Unit	Biological Reference interval
	GL	COSYLATED HAEMOG	LOBIN (HBA1C)	
GLYCOSYLATED HAEM		8.2 <sup>H</sup>	%	4.0 - 6.4
WHOLE 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	8.2 <sup>H</sup> 188.64 <sup>H</sup>	%	
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP	8.2 <sup>H</sup> 188.64 <sup>H</sup> TTES ASSOCIATION (ADA):	% mg/dL EMOGLOGIB (HBAIC) ii	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE I by HPLC (HIGH PERFORI INTERPRETATION: RE	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years	8.2 <sup>H</sup> 188.64 <sup>H</sup> TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) ii <5.7	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 FFRENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	8.2 <sup>H</sup> 188.64 <sup>H</sup> TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) ii <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	8.2 <sup>H</sup> 188.64 <sup>H</sup> TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) ii <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 FFRENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	8.2 <sup>H</sup> 188.64 <sup>H</sup> TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) ii <5.7 5.7 - 6.4 >= 6.5 2 > 19 Years	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F Dia	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABE FFRENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	8.2 <sup>H</sup> 188.64 <sup>H</sup> TES ASSOCIATION (ADA): GLYCOSYLATED H	% mg/dL EMOGLOGIB (HBAIC) ii <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 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	8.2 <sup>H</sup> 188.64 <sup>H</sup> TES ASSOCIATION (ADA): GLYCOSYLATED H Goals of Therapy: Actions Suggested:	% mg/dL <5.7 5.7 - 6.4 >= 6.5 => 19 Years <7.0	60.00 - 140.00

#### COMMENTS:

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

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

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

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

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

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





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)

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



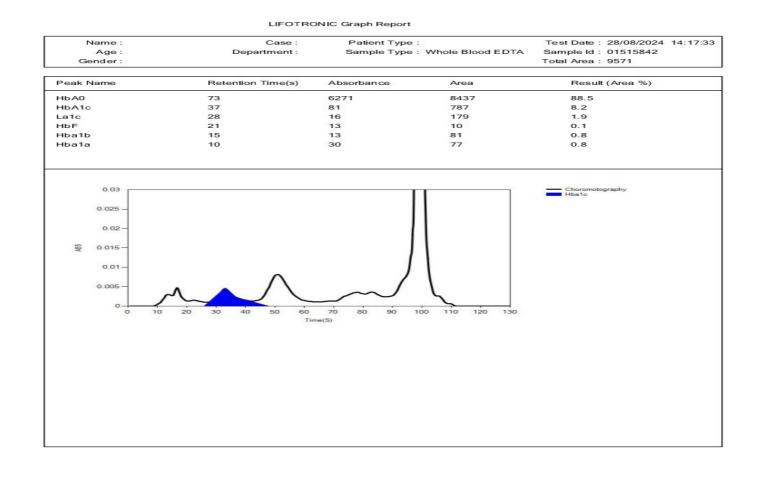
TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbi Chairman & Consultant P	ology) ME	n Chopra 9 (Pathology) 1t Pathologist
NAME	: Mr. R.C GUPTA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT	
Test Name	Va	alue Unit	Biological Reference interval







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

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

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		<b>Chopra</b> ogy & Microbiology) Consultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
IAME	: Mr. R.C GUPTA			
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LIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 28/Aug/2024 09:44AM
LIENT ADDRESS	: 6349/1, NICHOLSON RC	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ER	YTHROCYTE SEDIME	INTATION RATE (ESF	۲)
by MODIFIED WESTER NTERPRETATION:	MENTATION RATE (ESR) GREN AUTOMATED METHOD	4	mm/1st h	r 0 - 20 on associated with infection, cancer and auto-
s C-reactive protein . This test may also ystemic lupus erythe ONDITION WITH LOV . low ESR can be see polycythaemia), sigr	be used to monitor disease ematosus <b>W ESR</b> In with conditions that inhib ificantly high white blood c	activity and response to it the normal sedimentat ell count (leucocytosis) ,	therapy in both of the al	bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such
IOTE: . ESR and C - reactiv 2. Generally, ESR doe 8. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	e cell anaemia) also lower t e protein (C-RP) are both ma s not change as rapidly as d <b>by as many other factors as</b> ed, it is typically a result of t ve a higher ESR, and menstr ran, methyldopa, oral contr d quinine may decrease it	rkers of inflammation. oes CRP, either at the sta <b>is ESR, making it a better</b> wo types of proteins, glo uation and pregnancy car	marker of inflammation bulins or fibrinogen. cause temporary eleva	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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



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	MD (Pathology 8 Chairman & Con	& Microbiology) nsultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist	
IAME	: Mr. R.C GUPTA				
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	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 28/Aug/2024 10:32AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		RTING DATE	: 28/Aug/2024 10:32AM	
CLIENT CODE. CLIENT ADDRESS Test Name			RTING DATE	: 28/Aug/2024 10:32AM Biological Reference interval	
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit	Biological Reference interval	
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT Value	Unit BIOCHEMISTR	Biological Reference interval	

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



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

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

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL 02		144.74	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEI by GLYCEROL PHOS	RUM PHATE OXIDASE (ENZYMATIC)	163.17 <sup>H</sup>	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		49.16	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: by CALCULATED, SPE	SERUM ECTROPHOTOMETRY	62.95	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	EROL: SERUM ECTROPHOTOMETRY	95.58	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	: SERUM Ectrophotometry	32.63	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU		452.65	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM ECTROPHOTOMETRY	2.94	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	RUM ECTROPHOTOMETRY	1.28	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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TRIGLYCERIDES/HDI	_ RATIO: SERUM	3.32	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

#### **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 recommended.

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

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





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

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**EXCELLENCE IN HEALTHCARE & DIAGNOSTICS** Dr. Yugam Chopra MD (Pathology) **CEO & Consultant Pathologist** 

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L	IVER FUNCTION TES	T (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.64	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.43	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	26.33	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	23.75	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by Calculated, spectrophotometry	1.11	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino meth propanol	29.22 <sup>L</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	28.42	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.76	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.98	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.78	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by Calculated, spectrophotometry	1.43	RATIO	1.00 - 2.00

# **INTERPRETATION**

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

# **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





	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant	obiology) MD	n <b>Chopra</b> D (Pathology) at Pathologist
NAME	: Mr. R.C GUPTA		
AGE/ GENDER	: 72 YRS/MALE	PATIENT ID	: 1593871
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012408280007
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 28/Aug/2024 08:49 AM
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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



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

MBBS, MD (PATHOLOGY)

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

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







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

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Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology)

КІ	DNEY FUNCTION T	EST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	33.3	mg/dL	10.00 - 50.00
CREATININE: SERUM by Enzymatic, SPECTROPHOTOMETERY	1.19	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by Calculated, spectrophotometry	15.56	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by Calculated, spectrophotometry	13.08	RATIO	10.0 - 20.0
JREA/CREATININE RATIO: SERUM by Calculated, spectrophotometry	27.98	RATIO	
JRIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	4.24	mg/dL	3.60 - 7.70
ALCIUM: SERUM by arsenazo III, spectrophotometry	10.45	mg/dL	8.50 - 10.60
HOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry	2.98	mg/dL	2.30 - 4.70
LECTROLYTES			
ODIUM: SERUM by ise (ion selective electrode)	137.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.62	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	102.9	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE			

# **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.

3. GI haemorrhage.

4. High protein intake.

5. Impaired renal function plus



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

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







NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.	: <b>Mr. R.C GUPTA</b> : 72 YRS/MALE : SURJESH : : 01515842	PATIENT ID REG. NO./LAB NO. REGISTRATION DA	: 1593871 <b>: 012408280007</b>
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Test Name		Value Unit	Biological Reference interval
6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	exia, high fever). n (e.g. ureter colostomy) nass (subnormal creatinine prod tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININ	kdown (e.g. infection, GI bleeding, thyro luction) IE LEVELS: more than creatinine) (e.g. obstructive	otoxicosis, Cushing's syndrome, high protein diet,

- 4. Other causes of decreased urea synthesis.
- 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).
- 6. Inherited hyperammonemias (urea is virtually absent in blood).
- 7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.
- 8. Pregnancy.

# DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

- 1. Phenacimide therapy (accelerates conversion of creatine to creatinine).
- 2. Rhabdomyolysis (releases muscle creatinine).
- 3. Muscular patients who develop renal failure.

# **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED GLOMERULAR FILTERATION RATE:

CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
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)

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Test Name		Value Unit	<b>Biological Reference interval</b>

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





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CLIENT ADDRESS	. 0545/ 1, 1101	IOLSON ROAD, P	AMDALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	,	75.7	μg/dL	59.0 - 158.0
UNSATURATED IRON SERUM	N BINDING CAPA	ACITY (UIBC)	418.52 <sup>H</sup>	μg/dL	150.0 - 336.0
by FERROZINE, SPEC			494.22 <sup>H</sup>	μg/dL	230 - 430
:SERUM			.,	10.	
by SPECTROPHOTOM		N A	15.32	%	
%TRANSFERRIN SATI by CALCULATED, SPE			15.32	%	15.0 - 50.0
TRANSFERRIN: SERU			350.9 <sup>H</sup>	mg/dL	200.0 - 350.0
by SPECTROPHOTOM	IETERY (FERENE)		000.7	Ŭ	
INTERPRETATION:-	150				
VARIAB SERUM IR		ANEMIA OF CH		IRON DEFICIENCY ANEMIA	
JERUIVI IN		Normal to	Reduced	Reduced	Normal

**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. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

Increased

Decreased < 12-15 %

Decreased

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

**SERUM FERRITIN:** 

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

Decreased

Decreased

Normal to Increased

### % 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)

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Normal

Normal

Normal or Increased

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN	OLOGY	
		ENDOCRING		
	e (T3): Serum	THYROID FUNCTION 0.758		0.35 - 1.93
<i>by сміа (снеміluміі</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOA	CHYROID FUNCTION 0.758 SSAY) 6.17	N TEST: TOTAL	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	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (T	
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)



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





Dr. Vinay Chopra

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Dr. Yugam Chopra

	MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology) Pathologist
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Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit		Biological Reference interva
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	
	RECO	VIMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

# INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, 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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LIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT	2			
Fest Name		Value	Unit	Biological Reference interv	val	
		VIT	AMINS			
		VITAMIN D/25 H	YDROXY VITAMIN D3			
	ROXY VITAMIN D3): SERU IESCENCE IMMUNOASSAY)	M 28.7 <sup>L</sup>	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0		
NTERPRETATION:						
	CIENT: FICIENT:	< 20 21 - 29		ng/mL ng/mL		
	D RANGE:	30 - 100		ng/mL		
2.25-OHVitamin D re- tissue and tightly bou 3. Vitamin D plays a p boosphate reabsorpt 4. Severe deficiency n <b>DECREASED:</b> 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondarv to advar 5. Osteoporosis and S 5. Enzyme Inducing dr INCREASED: 1. Hypervitaminosis E severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	and by a transport protein rimary role in the mainten ion, skeletal calcium depos nay lead to failure to miner posure. malabsorption (celiac dise Vitamin D 25- hydroxylase decondary Hyperparathroid rugs: anti-epileptic drugs lik D is Rare, and is seen only a and hyperphophatemia. In therapy in deficient indi	esevoir and transport f while in circulation. ance of calcium home ition, calcium mobiliza alize newly formed os ase) activity ism (Mild to Moderate te phenytoin, phenoba fter prolonged exposu viduals must be monit	form of Vitamin D and trans ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in arbital and carbamazepine, ure to extremely high doses ored by periodic assessme	sport form of Vitamin D, being stored in a m absorption, renal calcium absorption a parathyroid harmone (PTH). rickets in children and osteomalacia in ac , that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can resu nt of Vitamin D levels in order to prevent ciency due to excess of melanin pigment w.	and dults. Ilt in	
interefere with Vitami	n D absorption.					





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

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



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est Name		Value	Unit	Biological Reference interval
NTERPRETATION:-				
				1012
INCREAS	ED VITAMIN B12		DECREASED VITAMIN	I B12
INCREAS 1.Ingestion of Vitam	lin C	1.Pregnancy		
INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	in C	1.Pregnancy	n, Anti-convulsants	
INCREAS 1.Ingestion of Vitam 2.Ingestion of Estroc 3.Ingestion of Vitam 4.Hepatocellular inj	in C gen in A ury	1.Pregnancy 2.DRUGS:Aspiri 3.Ethanol Igesti 4. Contraceptive	n, Anti-convulsants on e Harmones	
INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular inj 5.Myeloproliferative	in C gen in A ury	1.Pregnancy 2.DRUGS:Aspiri 3.Ethanol Igesti 4. Contraceptive 5.Haemodialys	n, Anti-convulsants on e Harmones s	
INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular inj 5.Myeloproliferative 6.Uremia .Vitamin B12 (cobala	in C gen in A ury	1.Pregnancy         2.DRUGS:Aspiri         3.Ethanol lgesti         4. Contraceptive         5.Haemodialys         6. Multiple Mye         oiesis and normal neuror	n, Anti-convulsants on e Harmones s loma loma	, Colchicine

deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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

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

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

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

 www.koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. R.C GUPTA			
AGE/ GENDER	: 72 YRS/MALE	PA	TIENT ID	: 1593871
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012408280007
<b>REFERRED BY</b>	:	RE	GISTRATION DATE	: 28/Aug/2024 08:49 AM
BARCODE NO.	: 01515842	CO	LLECTION DATE	: 28/Aug/2024 09:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 28/Aug/2024 10:32AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
PROSTATE SPECIFIC A SERUM	<b>PROST</b> ANTIGEN (PSA) - TOTAL:	TUMOUR ATE SPECIFIC AN 0.9	MARKER ITIGEN (PSA) - TOTA ng/mL	NL 0.0 - 4.0
	ESCENCE IMMUNOASSAY)			
Expected Values for				
Smokers Non-smokers	< 4 ng/ml < 4 ng/ml			
1.Prostate-specific an		is produced by the p	prostate gland, the lining	g of the urethra, and the bulbourethral gland.
1.Increased in glandu	lar size and tissue damage cause	d by benign prostat	ic hypertrophy.	
2.Prostatitis. 3 Prostate cancer may	y increase circulating PSA levels.			
			ocated as an early indic	ator of tumor recurrence and as an indicator of

**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)

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.

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	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. R.C GUPTA				
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		COLLE	CTION DATE	: 28/Aug/2024 09:04AM : 28/Aug/2024 10:01AM	
		REPOI	RTING DATE		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATH	OLOGY		
	URINE F	ROUTINE & MICROSC	OPIC EXAMINAT	ION	
PHYSICAL EXAMINA					
QUANTITY RECIEVED		10	ml		
	TANCE SPECTROPHOTOMETRY				
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW	
TRANSPARANCY		CLEAR		CLEAR	
-	TANCE SPECTROPHOTOMETRY	1 01		1 002 1 020	
SPECIFIC GRAVITY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030	
CHEMICAL EXAMINA					
REACTION		ALKALINE			
by DIP STICK/REFLEC PROTEIN	TANCE SPECTROPHOTOMETRY	Nogativo		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pH		7.5		5.0 - 7.5	
	TANCE SPECTROPHOTOMETRY	1.0			
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
NITRITE	ANGE SPECI KOPHUI UMEI RY	Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.				
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0	
KETONE BODIES		Negative		NEGATIVE (-ve)	
-	TANCE SPECTROPHOTOMETRY				
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				

MICROSCOPIC EXAMINATION



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, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.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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					: 28/Aug/2024 10:01AM			
					CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA 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	2-3	/HPF	0 - 5				
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		0-1	/HPF	ABSENT				
CRYSTALS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)				
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)		NEGATIVE (-ve)				

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



BACTERIA



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

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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT