





	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD (F CEO & Consultant P	Pathology)
NAME	: Mr. GURPAL			
AGE/ GENDER	: 49 YRS/MALE	РАТ	TENT ID	: 1616897
COLLECTED BY	:	REG	. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AMB		ISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	:01517176		LECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 18/Sep/2024 10:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM		ORTING DATE	. 10/ Sep/ 2024 10.05AW
<u> </u>				
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA WELLN	ESS PANEL: 1.5	
	со	MPLETE BLOOD	COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES		. ,	
HAEMOGLOBIN (HB)		13.6	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB		4.76 ^H	Millions/cm	nm 3.50 - 5.00
by HYDRO DYNAMIC F PACKED CELL VOLUN	OCUSING, ELECTRICAL IMPEDENCE IE (PCV)	42.3	%	40.0 - 54.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)		88.9	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	28.5		27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		pg	
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.1 ^L	g/dL	32.0 - 36.0
	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.5	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	44.7	fL	35.0 - 56.0
MENTZERS INDEX		18.68	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	25.15	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ' by sf cube & microscopy	5810	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A DIFFERENTIAL LEUCO	UTOMATED HEMATOLOGY ANALYZER ICYTE COUNT (DLC)			
NEUTROPHILS		73 ^H	%	50 - 70

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

MD (Pathology & Microbiol Chairman & Consultant Pat		crobiology)	MD CEO & Consultant	(Pathology)
NAME	: Mr. GURPAL			
AGE/ GENDER	: 49 YRS/MALE	PA	TIENT ID	: 1616897
COLLECTED BY		RF	G. NO./LAB NO.	: 012409180017
REFERRED BY	· : CENTRAL PHOENIX CLUB (AMB)			: 18/Sep/2024 09:26 AM
BARCODE NO.	: 01517176			
			LLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 18/Sep/2024 10:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		20	%	20 - 40
by FLOW CYTOMETRY EOSINOPHILS	BY SF CUBE & MICROSCOPY	3	%	1 - 6
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			
MONOCYTES		4	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0	%	0 - 1
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0	/0	0-1
ABSOLUTE LEUKOCY				
ABSOLUTE NEUTROP		4241	/cmm	2000 - 7500
	by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			000 1000
	YTE COUNT BY SF CUBE & MICROSCOPY	1162	/cmm	800 - 4900
ABSOLUTE EOSINOPH		174	/cmm	40 - 440
	BY SF CUBE & MICROSCOPY			
ABSOLUTE MONOCY		232	/cmm	80 - 880
ABSOLUTE BASOPHIL	BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	BY SF CUBE & MICROSCOPY	0	7 CHIIII	0 - 110
PLATELETS AND OTH	ER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PL		125000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.15	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE				
		15 ^H	fL	6.50 - 12.0
-	by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC)		/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		73000	7.011111	
PLATELET LARGE CEL	L RATIO (P-LCR) OCUSING, ELECTRICAL IMPEDENCE	59 ^H	%	11.0 - 45.0
PLATELET DISTRIBUT		17.1 ^H	%	15.0 - 17.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
ADVICE		KINDLY CORR	RELATE CLINICALLY	

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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

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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mr. GURPAL		
AGE/ GENDER	: 49 YRS/MALE	PATIENT ID	: 1616897
COLLECTED BY	:	REG. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	: 01517176	COLLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 18/Sep/2024 10:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	
Test Name	Value	Unit	Biological Reference interval



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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)	ب ۲	am Chopra 1D (Pathology) ant Pathologist	
NAME	: Mr. GURPAL				
AGE/ GENDER	: 49 YRS/MALE		PATIENT ID	: 1616897	
COLLECTED BY	:		REG. NO./LAB NO.	:012409180017	1
REFERRED BY	: CENTRAL PHOENIX CLUB (AME	BALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:	26 AM
BARCODE NO.	:01517176	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	COLLECTION DATE	: 18/Sep/2024 09:	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Sep/2024 02:	
CLIENT CODE. CLIENT ADDRESS		በ እ፤ ለ ሮለ እነጥጥ		. 10/ Sep/ 2024 02.	671 IVI
ULIENI ADDRË33	: 6349/1, NICHOLSON ROAD, AM	IDALA UANT I			
Test Name		Value	Unit	Biologica	al Reference interval
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HbA1c):	OSYLATED H 6.1	AEMOGLOBIN (HBA1) %	C) 4.0 - 6.4	
ESTIMATED AVERAGE	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	128.37	mg/dL	60.00 - 14	40.00
	AS PER AMERICAN DI				1
	REFERENCE GROUP		LYCOSYLATED HEMOGLOG	GIB (HBAIC) in %	
Non diabetic Adults >= 18 years		<5.7			1
At Risk (Prediabetes)		5.7 - 6.4			
D	iagnosing Diabetes		>= 6.5		
Therapeut	ic goals for glycemic control		Age > 19 Yea s of Therapy: ns Suggested:	< 7.0 >8.0	-
			Age < 19 Yea	rs	4

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.

Goal of therapy:

<7.5

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
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. GURPAL			
AGE/ GENDER	: 49 YRS/MALE	PAT	TENT ID	: 1616897
COLLECTED BY	:	REG	. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA	CANTT) REC	ISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	:01517176	COI	LECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REF	ORTING DATE	: 18/Sep/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT		
Test Name	V	alue	Unit	Biological Reference interval
<i>by RED CELL AGGREG</i> NTERPRETATION: I. ESR is a non-specif mmune disease, but	does not tell the health practitioner exact	indicates the p ctly where the	inflammation is in the	ion associated with infection, cancer and auto-
IS C-reactive protein B. This test may also ystemic lupus erythe CONDITION WITH LO A low ESR can be see polycythaemia), sigr Is sickle cells in sickl	be used to monitor disease activity and r ematosus W ESR n with conditions that inhibit the normal	response to th	erapy in both of the a	bove diseases as well as some others, such as
2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	e protein (C-RP) are both markers of infla is not change as rapidly as does CRP, eith by as many other factors as is ESR, makir ed, it is typically a result of two types of ve a higher ESR, and menstruation and p ran, methyldopa, oral contraceptives, pe id quinine may decrease it	ner at the star ng it a better n proteins, glob regnancy can	narker of inflammatior ulins or fibrinogen. cause temporary eleva	1.





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

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







	Dr. Vinay Cl MD (Pathology Chairman & Col		Dr. Yugam C MD (Pa CEO & Consultant Pa	ithology)
NAME	: Mr. GURPAL			
AGE/ GENDER	: 49 YRS/MALE	РА	TIENT ID	: 1616897
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (A	MBALA CANTT) RE	GISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	:01517176	CO	LLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 18/Sep/2024 11:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
		Value	Unit	Biological Reference interval
Test Name		Value		3
Test Name	CLIN		Y/BIOCHEMISTRY	5
Test Name	CLIN			

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.





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

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

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



Page 6 of 20







		hopra & Microbiology) onsultant Pathologis		(Pathology)
NAME	: Mr. GURPAL			
AGE/ GENDER	: 49 YRS/MALE		PATIENT ID	: 1616897
COLLECTED BY	:		REG. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB	(AMBALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	:01517176		COLLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Sep/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			OFILE : BASIC	
CHOLESTEROL TOTAL:	SERUM	147.99	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIL			ing, ei	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU		118.86	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPH.	ATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (D	IRECT): SERUM	65.66	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITIO	Ν			BORDERLINE HIGH HDL: 30.0 -
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SE	RUM	58.56	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPEC		00.00	ing, de	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER		82.33	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPEC		02.55	ing/ dE	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
VLDL CHOLESTEROL: S	FRIM	23.77	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPEC		23.11	ing/ dE	0.00 - 43.00
TOTAL LIPIDS: SERUM		414.84	mg/dL	350.00 - 700.00
by CALCULATED, SPEC CHOLESTEROL/HDL RA		2.25	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPEC				AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0
	Ν.4	0.00		HIGH RISK: > 11.0
LDL/HDL RATIO: SERU by CALCULATED, SPEC		0.89	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0
				HIGH RISK: > 6.0

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

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

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

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

 www.koshealthcare.com

Page 7 of 20





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mr. GURPAL		
AGE/ GENDER	: 49 YRS/MALE	PATIENT ID	: 1616897
COLLECTED BY	:	REG. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	: 01517176	COLLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 18/Sep/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	Г	
Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	1.01	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



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

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









Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. GURPAL **AGE/ GENDER** : 49 YRS/MALE **PATIENT ID** :1616897 **COLLECTED BY** REG. NO./LAB NO. :012409180017 : **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :18/Sep/2024 09:26 AM **BARCODE NO.** :01517176 **COLLECTION DATE** :18/Sep/2024 09:29AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Sep/2024 11:13AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.94 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.27 0.00 - 0.40 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.10 - 1.00 0.67 mg/dL by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 20.55 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 21.34 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE

AST/ALT RATIO: SERUM	0.96	RATIO	0.00 - 46.00
by CALCULATED, SPECTROPHOTOMETRY			
ALKALINE PHOSPHATASE: SERUM	90.1	U/L	40.0 - 130.0
by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL			
PROPANOL			
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM	36.03	U/L	0.00 - 55.0
by SZASZ, SPECTROPHTOMETRY			
TOTAL PROTEINS: SERUM	6.42	gm/dL	6.20 - 8.00
by BIURET, SPECTROPHOTOMETRY			
ALBUMIN: SERUM	3.67	gm/dL	3.50 - 5.50
by BROMOCRESOL GREEN			
GLOBULIN: SERUM	2.75	gm/dL	2.30 - 3.50
by CALCULATED, SPECTROPHOTOMETRY			
A : G RATIO: SERUM	1.33	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





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

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









	Dr. Vinay Chopi MD (Pathology & Mid Chairman & Consulta	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. GURPAL				
AGE/ GENDER	: 49 YRS/MALE	PAT	FIENT ID	: 1616897	
COLLECTED BY	:	REG	G. NO./LAB NO.	:012409180017	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBA	ALA CANTT) Re (GISTRATION DATE	: 18/Sep/2024 09:26	AM
BARCODE NO.	:01517176	COL	LECTION DATE	: 18/Sep/2024 09:29/	AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 18/Sep/2024 11:13/	AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT			
Test Name		Value	Unit	Biological R	eference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inci	reased)	

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).

DDOCNOCTIC	CICNUEICANICE.
PROGINOSTIC	SIGNIFICANCE:

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

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







EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology)

MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. GURPAL AGE/ GENDER : 49 YRS/MALE **PATIENT ID** :1616897 **COLLECTED BY** :012409180017 REG. NO./LAB NO. : **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :18/Sep/2024 09:26 AM **BARCODE NO.** :01517176 **COLLECTION DATE** :18/Sep/2024 09:29AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Sep/202411:13AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** KIDNEV FUNCTION TEST (COMDUCTE)

Dr. Vinay Chopra

KI	DNEY FUNCTION 1	TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	24.64	mg/dL	10.00 - 50.00
CREATININE: SERUM by enzymatic, spectrophotometery	0.98	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by Calculated, spectrophotometry	11.51	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by Calculated, spectrophotometry	11.74	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by Calculated, spectrophotometry	25.14	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.35	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.08	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry <u>ELECTROLYTES</u>	3.02	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	142.5	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ise (ion selective electrode)	4.31	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	106.88	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM <i>by CALCULATED</i>	94.5		

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

CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



Page 11 of 20





	MD (Pathology	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n Chopra (Pathology) : Pathologist
IAME	: Mr. GURPAL			
GE/ GENDER	: 49 YRS/MALE	PA	ATIENT ID	: 1616897
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 012409180017
EFERRED BY	: CENTRAL PHOENIX CLUB (A	AMBALA CANTT) R I	EGISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	:01517176		DLLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 18/Sep/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD			
	. 00407 I, MICHOLSON KOND			
Test Name		Value	Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle n 9. Certain drugs (e.g NCREASED RATIO (> 1. Postrenal azotemi	exia, high fever). n (e.g. ureter colostomy) nass (subnormal creatinine proc tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININ a (BUN rises disproportionately	luction) IE LEVELS: more than creatinine		osis, Cushing's syndrome, high protein diet, thy).
ourns, surgery, cache 2. Urine reabsorption 3. Reduced muscle n 4. Certain drugs (e.g. NCREASED RATIO (> 5. Postrenal azotemia DECREASED RATIO (< 6. Acute tubular nect 6. Acute tubular nect 7. SLADH causes of de 5. Repeated dialysis 6. Inherited hyperan 7. SIADH (syndrome 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 9. Phenacimide thera 9. Muscular patients NAPPROPIATE RATIO	exia, high fever). (e.g. ureter colostomy) hass (subnormal creatinine proc tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININ a (BUN rises disproportionately superimposed on renal disease 10:1) WITH DECREASED BUN : rosis. Ind starvation. te. ecreased urea synthesis. (urea rather than creatinine diff monemias (urea is virtually abso of inappropiate antidiuretic hard 10:1) WITH INCREASED CREATININ apy (accelerates conversion of c releases muscle creatinine). who develop renal failure. D:	duction) JE LEVELS: more than creatinine fuses out of extracell sent in blood). mone) due to tubular INE: reatine to creatinine)) (e.g. obstructive uropa ular fluid). secretion of urea.	

DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS		
Normal kidney function	>90	No proteinuria		
Kidney damage with	>90	Presence of Protein ,		
normal or high GFR		Albumin or cast in urine		
Mild decrease in GFR	60 -89			
Moderate decrease in GFR	30-59			
Severe decrease in GFR	15-29			
Kidney failure	<15			
	Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR Moderate decrease in GFR Severe decrease in GFR	Normal kidney function >90 Kidney damage with >90 normal or high GFR >90 Mild decrease in GFR 60 -89 Moderate decrease in GFR 30-59 Severe decrease in GFR 15-29		





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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. GURPAL		
AGE/ GENDER	: 49 YRS/MALE	PATIENT ID	: 1616897
COLLECTED BY	:	REG. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	: 01517176	COLLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 18/Sep/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	1	
<u> </u>			
Test Name	Value	Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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



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

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







					Pathology)	
NAME	: Mr. GURPAL					
AGE/ GENDER	: 49 YRS/MALI	E		PATIENT ID	: 1616897	
COLLECTED BY	:			REG. NO./LAB NO.	: 012409180017	
REFERRED BY	REFERRED BY : CENTRAL PHOENIX CLUB (AMBALA CANTT)		REGISTRATION DATE	: 18/Sep/2024 09:26 AM		
BARCODE NO.	:01517176			COLLECTION DATE	: 18/Sep/2024 09:29AM	
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 18/Sep/2024 11:13AM	
CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, A	AMBALA CANTT			
Test Name			Value	Unit	Biological Reference interval	
			IRON	PROFILE		
IRON: SERUM			46.5 ^L	μg/dL	59.0 - 158.0	
by FERROZINE, SPEC UNSATURATED IRON			232.93	μg/dL	150.0 - 336.0	
:SERUM			202.70	μ6/ 41	10010 00010	
by FERROZINE, SPEC			070.46			
TOTAL IRON BINDIN :SERUM	IG CAPACITY (TIE	SC)	279.43	μg/dL	230 - 430	
by SPECTROPHOTOM	IETERY					
%TRANSFERRIN SAT			16.64	%	15.0 - 50.0	
by CALCULATED, SPE		ERY (FERENE)	100.4	me /dl	200.0 250.0	
TRANSFERRIN: SERU by SPECTROPHOTOM			198.4 ^L	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAB	BLES	ANEMIA OF CH	RONIC DISEASE	IRON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT	

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:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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 iron deficiency anemia, is severely contra-indicated in Thalassemia.

TOTAL IRON BINDING CAPACITY (TIBC): 1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

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





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

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







RPAL MALE L PHOENIX CLUB (AMBALA CANTT) 76 GOOSTIC LAB NICHOLSON ROAD, AMBALA CANTT Value	COLLECTION DATE REPORTING DATE	: 1616897 : 012409180017 : 18/Sep/2024 09:26 AM : 18/Sep/2024 09:29AM : 18/Sep/2024 11:13AM Biological Reference interval
L PHOENIX CLUB (AMBALA CANTT) 76 GNOSTIC LAB NICHOLSON ROAD, AMBALA CANTT	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012409180017 : 18/Sep/2024 09:26 AM : 18/Sep/2024 09:29AM : 18/Sep/2024 11:13AM
76 GNOSTIC LAB NICHOLSON ROAD, AMBALA CANTT	REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 18/Sep/2024 09:26 AM : 18/Sep/2024 09:29AM : 18/Sep/2024 11:13AM
76 GNOSTIC LAB NICHOLSON ROAD, AMBALA CANTT	COLLECTION DATE REPORTING DATE	: 18/Sep/2024 09:29AM : 18/Sep/2024 11:13AM
GNOSTIC LAB NICHOLSON ROAD, AMBALA CANTT	REPORTING DATE	: 18/Sep/2024 11:13AM
NICHOLSON ROAD, AMBALA CANTT		
		Biological Reference interval
Value	Unit	Biological Reference interval
ENDO	RINOLOGY	
THYROID FUN	CTION TEST: TOTAL	
	ng/mL	0.35 - 1.93
8.24 ROPARTICLE IMMUNOASSAY)	μgm/dL	4.87 - 12.60
ONE (TSH): SERUM 1.132 ROPARTICLE IMMUNOASSAY)	μIU/mL	0.35 - 5.50
	ROPARTICLE IMMUNOASSAY) 8.24 ROPARTICLE IMMUNOASSAY) ONE (TSH): SERUM 1.132 ROPARTICLE IMMUNOASSAY) E ation, reaching peak levels between 2-4 a.m and Im TSH concentrations.TSH stimulates the pro- vel of regulation of the hypothalamic-pituita	ROPARTICLE IMMUNOASSAY) 8.24 μgm/dL ROPARTICLE IMMUNOASSAY) 0NE (TSH): SERUM 1.132 μIU/mL ROPARTICLE IMMUNOASSAY) 1.132 μIU/mL

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Lab care)	EXCELLENCE IN HEALTHCARE & DIAGNOSTICS
y) logist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mr. GURPAL		
AGE/ GENDER	: 49 YRS/MALE	PATIENT ID	: 1616897
COLLECTED BY	:	REG. NO./LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:26 AM
BARCODE NO.	: 01517176	COLLECTION DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 18/Sep/2024 11:13AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	ne		Value Unit			Biological Reference interv		
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00			
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50			
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50			
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50			
	RECC	DMMENDATIONS OF TSH L	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.

Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol

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)







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. GURPAL				
AGE/ GENDER	: 49 YRS/MALE		PATIENT ID	: 1616897	
COLLECTED BY	•		REG. NO./LAB NO.	: 012409180017	
	·				
REFERRED BY	: CENTRAL PHOENIX CLUB (A	AMBALA CANTT)	REGISTRATION DATE	: 18/Sep/2024 09:26 AM	
BARCODE NO.	:01517176		COLLECTION DATE	: 18/Sep/2024 09:29AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Sep/2024 11:13AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		VIT	AMINS		
	VI	TAMIN D/25 H	YDROXY VITAMIN D3		
	OXY VITAMIN D3): SERUM escence immunoassay)	20.8 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
INTERPRETATION:					
DEFIC		< 20		g/mL	
INSUFFI PREFFEREI		<u>21 - 29</u> 30 - 100		g/mLg/mL	
INTOXIC		> 100		g/mL	
tissue and tightly bour 3. Vitamin D plays a pr phosphate reabsorptic 4. Severe deficiency man DECREASED: 1. Lack of sunshine exp 2. Inadequate intake, r 3. Depressed Hepatic V 4. Secondary to advance 5. Osteoporosis and Se 6. Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D severe hypercalcemia CAUTION: Replacement hypervitaminosis D NOTE: -Dark coloured in	nd by a transport protein whil imary role in the maintenance on, skeletal calcium deposition ay lead to failure to mineralize nosure. malabsorption (celiac disease) (itamin D 25- hydroxylase activi- ced Liver disease condary Hyperparathroidism ugs: anti-epileptic drugs like ph is Rare, and is seen only after and hyperphophatemia. It therapy in deficient individu adividuals as compare to whites	e in circulation. e of calcium homeon, calcium mobiliza e newly formed ost vity (Mild to Moderate henytoin, phenoba prolonged exposur als must be monito	ostatis. It promotes calciur ition, mainly regulated by teoid in bone, resulting in i deficiency) rbital and carbamazepine, re to extremely high doses pred by periodic assessmer	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. 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	
interefere with Vitamin					





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

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

Page 17 of 20





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)			
NAME	: Mr. GURPAL						
AGE/ GENDER	: 49 YRS/MALE	F	ATIENT ID	: 1616897			
COLLECTED BY	:	F	EG. NO./LAB NO.	: 012409180017			
REFERRED BY	: CENTRAL PHOENIX CLUB			: 18/Sep/2024 09:26 AM			
BARCODE NO.	: 01517176		OLLECTION DATE	: 18/Sep/2024 09:20 AM			
				1			
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 18/Sep/2024 11:13AM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	,D, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
INTERPRETATION:-	ESCENT MICROPARTICLE IMMUN	352 IOASSAY)	pg/mL	190.0 - 890.0			
	ED VITAMIN B12		DECREASED VITAMIN	N B12			
				1.Pregnancy			
1.Ingestion of Vitam	nin C			Calabiaina			
1.Ingestion of Vitam 2.Ingestion of Estrog	nin C gen	2.DRUGS:	Aspirin, Anti-convulsants	, Colchicine			
1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	nin C gen in A	2.DRŬGS: 3.Ethanol	Aspirin, Anti-convulsants Igestion	, Colchicine			
1.Ingestion of Vitam 2.Ingestion of Estrog	nin C gen nin A jury	2.DRŬGS: 3.Ethanol	Aspirin, Anti-convulsants Igestion eptive Harmones	, Colchicine			
1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	nin C gen in A	2.DRŬGS: 3.Ethanol	Aspirin, Anti-convulsants Igestion	, Colchicine			

e leve also elevated in vitamin deficien

7. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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

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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







	Dr. Vinay Ch MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD EO & Consultant	(Pathology)
NAME	: Mr. GURPAL			
AGE/ GENDER	: 49 YRS/MALE	PATIENT	T ID	: 1616897
COLLECTED BY	:	REG. NO.	/LAB NO.	: 012409180017
REFERRED BY	: CENTRAL PHOENIX CLUB (AI			: 18/Sep/2024 09:26 AM
BARCODE NO.	:01517176		TON DATE	: 18/Sep/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ING DATE	: 18/Sep/2024 11:08AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 10/ Sep/ 2024 11.00AW
CLIENT ADDRESS	. 0343/ 1, MCHOLSON ROAD, I			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
		OUTINE & MICROSCOF		ΓΙΟΝ
PHYSICAL EXAMINA			10 274 111111	
		10	ml	
QUANTITY RECIEVED	J TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY		AMBER YELLOW		PALE YELLOW
		HAZY		CLEAR
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			1.002 1.000
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
-	TANCE SPECTROPHOTOMETRY			
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
рН		<=5.0		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY	Negetive		
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Normal	EU/dL	0.2 - 1.0
		Negative		NEGATIVE (-ve)
		Nogativo		
BLOOD		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-VE)		NEGATIVE (-ve)
MICROSCOPIC EXAM				



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.



NAME





Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist : Mr. GURPAL AGE/ GENDER : 49 YRS/MALE **PATIENT ID** :1616897 **COLLECTED BY** REG. NO./LAB NO. :012409180017 : **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :18/Sep/2024 09:26 AM **COLLECTION DATE BARCODE NO.** :01517176 :18/Sep/2024 09:29AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Sep/2024 11:08AM

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

Test Name	Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	6-8	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
DTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

End Of Report





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

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

