



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	M	am Chopra D (Pathology) ant Pathologist
NAME	: Mr. MANPREET SINGH			
AGE/ GENDER	: 26 YRS/MALE		PATIENT ID	: 1555006
COLLECTED BY	:		REG. NO./LAB NO.	: 012407200036
REFERRED BY	:		REGISTRATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	:01513488		COLLECTION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Jul/2024 10:30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	ELLNESS PANEL: 1.	5
	CON	/IPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB))	15.4	gm/dL	12.0 - 17.0
by CALORIMETRIC				
RED BLOOD CELL (RE	SC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.52 ^H	Million	s/cmm 3.50 - 5.00
PACKED CELL VOLUN	/IE (PCV)	47.1	%	40.0 - 54.0
-			e e	80.0 100.0
MEAN CORPUSCULA by CALCULATED BY A	K VOLUIVIE (IVICV) AUTOMATED HEMATOLOGY ANALYZER	85.2	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	27.8	pg	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER	22.7	a (di	22.0.24.0
	R HEMOGLOBIN CONC. (MCHC)	32.7	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TON WIDTH (RDW-CV)	13.3	%	11.00 - 16.00
-	AUTOMATED HEMATOLOGY ANALYZER	10 /		
	TON WIDTH (RDW-SD)	42.6	fL	35.0 - 56.0
MENTZERS INDEX		15.43	RATIO	BETA THALASSEMIA TRAIT: < 13
by CALCULATED				IRON DEFICIENCY ANEMIA: >13
GREEN & KING INDE	X	20.46	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS	<u>S (WBCS)</u>			inon benolenor AntivitA. 200
TOTAL LEUCOCYTE C		9310	/cmm	4000 - 11000
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
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 %



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



: Mr. MANPREET SINGH

NAME



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

CEO & Consultant Pathologist

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...

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	54	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	29	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	12 ^H	%	1-6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5027	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2700	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1117 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	466	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by flow cytometry by sf cube & microscopy PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	0 E RS.	/cmm	0 - 110
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	329000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.31	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	75000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	22.8	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.1	%	15.0 - 17.0



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Test Name	Value	Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	IG DATE	: 20/Jul/2024 02:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LYCOSYLATED HAEMOGLOE	BIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	OGLOBIN (HbA1c):	5.4	%	4.0 - 6.4
ESTIMATED AVERAGE F	,	108.28	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA):		
RE	FERENCE GROUP	GLYCOSYLATED HEMO	GLOGIB (HBAIC) ii	n %
Non diab	etic Adults >= 18 years	<5.		
At F	Risk (Prediabetes)	5.7 -		
Dia	gnosing Diabetes	>= (
		Age > 19		
There is		Goals of Therapy:	< 7.0	j

COMMENTS:

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

Age < 19 Years

Actions Suggested:

Goal of therapy:

>8.0

<7.5

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled. 3.Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4.High

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

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

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





Therapeutic goals for glycemic control

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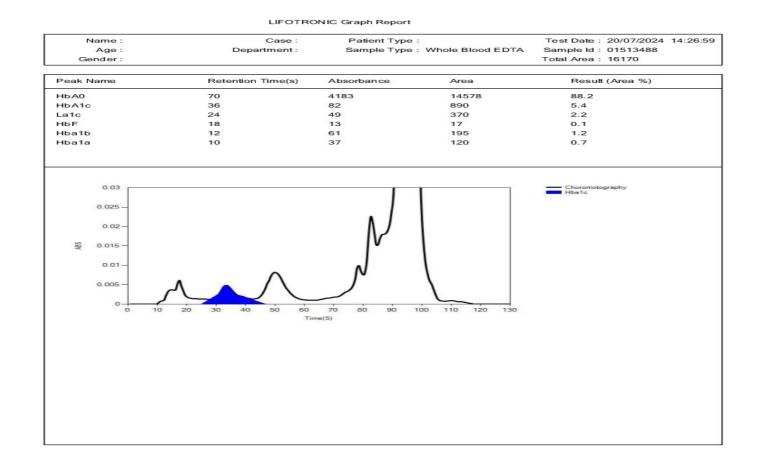


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Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ILA CANT I	
CLIENT ADDDECC	2040/1 NICHOLCON DOAD AMDA	LA CANTT	
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	Chairman & Consultant	C, /	
	Dr. Vinay Chopra MD (Pathology & Micro		m Chopra D (Pathology)





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NAME	: Mr. MANPREET SINGH			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 20/Jul/2024 10:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	FRVTHR	OCYTE SEDIMENT	TION PATE (FSE	2
by MODIFIED WESTER NTERPRETATION: . ESR is a non-specifi mmune disease, but 4 2. An ESR can be affect is C-reactive protein 3. This test may also b ystemic lupus erythe CONDITION WITH LOV A low ESR can be seer polycythaemia), sign is sickle cells in sickle NOTE: . ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav b. Drugs such as dextri	does not tell the health practitione ted by other conditions besides in the used to monitor disease activity matosus V ESR n with conditions that inhibit the n ificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CRI by as many other factors as is ESR, d, it is typically a result of two typ (e a higher ESR, and menstruation	er exactly where the ini iflammation. For this re- and response to thera normal sedimentation of the (leucocytosis), and cont (leucocytosis), and	lammation is in the eason, the ESR is typ upy in both of the ak of red blood cells, su some protein abnor inflammation or as ker of inflammation is or fibrinogen. se temporary eleval	on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIN		Unit FRY/BIOCHEMISTR	
Test Name	CLIN			

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL		202.62 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU	JM hate oxidase (enzymatic)	61.96	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E by SELECTIVE INHIBITION		62.25	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		127.98	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 CHOLESTER by CALCULATED, SPE		140.37 ^H	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:		12.39	mg/dL	0.00 - 45.00
by CALCULATED, SPEC TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Λ	467.2	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	3.25	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: SERI		2.06	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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





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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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Test Name		Value	Unit	Biological Reference interval
		LIVER FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.35	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION SI	DECTRODHOTOMETRV			

Dr. Vinay Chopra

MD (Pathology & Microbiology)

BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.35	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry	0.21	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.41	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	24.46	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by Calculated, spectrophotometry	0.92	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para nitrophenyl phosphatase by amino methyl propanol	73	U/L	40.0 - 150.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	19	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.19	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.92	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	2.27 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	2.17 ^H	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.

INCREASED:

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





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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).

PROGNOSTIC	SIGNIFICANCE:

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



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Dr. Yugam Chopra

	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Tugam MD CEO & Consultant	(Pathology)
NAME	: Mr. MANPREET SINGH			
AGE/ GENDER	: 26 YRS/MALE	PA	TIENT ID	: 1555006
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012407200036
REFERRED BY	:	RE	GISTRATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	:01513488	CO	LLECTION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 20/Jul/2024 11:14AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KID	NEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		29.03	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		1.23	mg/dL	0.40 - 1.40
BLOOD UREA NITRO	GEN (BUN): SERUM	13.57	mg/dL	7.0 - 25.0
by CALCULATED, SPE		11.00	DATIO	10.0. 20.0
RATIO: SERUM	GEN (BUN)/CREATININE	11.03	RATIO	10.0 - 20.0
by CALCULATED, SPE	CTROPHOTOMETRY			
		23.6	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	CIROPHOTOMETRY	6.4	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	E PEROXIDASE			
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.58	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER		3.86	mg/dL	2.30 - 4.70
-	ATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	142.1	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.11	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	E ELECTRODE)	10/ 57		00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	E ELECTRODE)	106.57	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	83		

Dr. Vinay Chopra

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

DR.YUGAM CHOPPA







5001.2500 0ENT						
		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	obiology)		m Chopra D (Pathology) nt Pathologist	
IAME	: Mr. MANP	REET SINGH				
AGE/ GENDER	: 26 YRS/MA	ALE.	РАТ	IENT ID	: 1555006	
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SARCODE NO.	:01513488		COL	LECTION DATE	: 20/Jul/2024 10:09	AM
LIENT CODE.	: KOS DIAGN	JOSTIC LAB	REP	ORTING DATE	: 20/Jul/2024 11:14	AM
LIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMBA	LA CANTT			
est Name			Value	Unit	Biological	Reference interval
. Prerenal azotemia ECREASED RATIO (< . Acute tubular necr . Low protein diet al . Severe liver diseas . Other causes of de . Repeated dialysis (. Inherited hyperam	superimposed 10:1) WITH DEC osis. nd starvation. e. ecreased ureas (urea rather th monemias (ur	CREASED BUN :	ut of extracellula blood).	r fluid).	aury).	
. Phenacimide thera . Rhabdomyolysis (r . Muscular patients VAPPROPIATE RATIO . Diabetic ketoacido hould produce an in	apy (accelerate eleases muscl who develop i c sis (acetoacet icreased BUN/	renal failure. ate causes false increase	in creatinine wi	th certain methodo	logies,resulting in norma	ıl ratio when dehydratio
STIMATED GLOMERU		ON RATE:				1
CKD STAGE G1		DESCRIPTION ormal kidney function	GFR (mL/mi		SSOCIATED FINDINGS No proteinuria	4
G1 G2		Kidney damage with	>9		Presence of Protein ,	4
02		normal or high GFR			bumin or cast in urine	
G3a	1	Vild decrease in GFR	60 -			1
G3b	Mo	oderate decrease in GFR	30-]
C1	c	overe decrease in CEP	15	20		1

G4

G5

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Severe decrease in GFR

Kidney failure

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15-29

<15

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Jul/2024 11:14AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	LA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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

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AGE/ GENDER	: 26 YRS/MALE	PATI	ENT ID	: 1555006
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REFERRED BY	:	REGIS	STRATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	: 01513488	COLL	ECTION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Jul/2024 11:14AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PROI	FILE	
IRON: SERUM		62.2 ^L	μg/dL	65.0 - 175.0
•	N BINDING CAPACITY (UIBC)	249	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	IG CAPACITY (TIBC)	311.2	μg/dL	230 - 430
%TRANSFERRIN SAT	URATION: SERUM	19.99	%	15.0 - 50.0
TRANSFERRIN: SERU by SPECTROPHOTON	JM	220.95	mg/dL	200.0 - 350.0

INTERPRETATION:-

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

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.



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REFERRED BY	:		REGISTRATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	: 01513488		COLLECTION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Jul/2024 11:19AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	SALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	THY	ROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM vescent microparticle immunoassay	0.768	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM vescent microparticle immunoassay	5.55)	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASSAY	2.141	μlU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the trilodothyronine (T3).Fai		nulates the pr	oduction and secretion of the me	<i>m. The variation is of the order of 50%.Hence time of t</i> etabolically active hormones, thyroxine (T4)and er 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 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	YRONINE (T3)	THYROXINE (T4)		THYROID STIMU	LATING 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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NAME	: Mr. MANPREET SINGH		
AGE/ GENDER	: 26 YRS/MALE	PATIENT ID	: 1555006
COLLECTED BY	:	REG. NO./LAB NO.	: 012407200036
REFERRED BY	:	REGISTRATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	: 01513488	COLLECTION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Jul/2024 11:19AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	

Test Name			Value	Unit	t	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	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.

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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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NAME	: Mr. MANPREET SINGH			
AGE/ GENDER	: 26 YRS/MALE	PATIENT ID	: 1555006	
COLLECTED BY	:	REG. NO./LAB NO.	: 012407200036	
REFERRED BY	:	REGISTRATION DATE	: 20/Jul/2024 10:05 AM	
BARCODE NO.	: 01513488	COLLECTION DATE	: 20/Jul/2024 10:09AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Jul/2024 12:49PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	ГТ		
Test Name	Value	Unit	Biological Reference interval	
ANTI	IMMUNOPAT HUMAN IMMUNODEFICIENCY VIRUS (HOLOGY/SEROLOGY (HIV) DUO ULTRA WITH ((P-24 ANTIGEN DETECTION)	
HIV 1/2 AND P24 AN by CMIA (CHEMILUMIN	TIGEN: SERUM 0.06 ESCENT MICROPARTICLE IMMUNOASSAY)	S/CO	NEGATIVE: < 1.00 POSITIVE: > 1.00	
HIV 1/2 AND P24 AN by CMIA (CHEMILUMIN INTERPRETATION:-	TIGEN RESULT NON - R ESCENT MICROPARTICLE IMMUNOASSAY)	REACTIVE		
	T (INDEX)	REMARKS		
< 1.		NON - REACTIVE		
Non-Reactive result in exposed to HIV 1/2 i antibodies. Hence a N RECOMMENDATIONS 1. Results to be clinic		he "window phase" i.e. before	s menas that patient has either not been the development of detectable levels of	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pat	n ay Chopra hology & Microbiology) n & Consultant Pathologist		(Pathology)
NAME	: Mr. MANPREET SIN	GH		
AGE/ GENDER	: 26 YRS/MALE		PATIENT ID	: 1555006
COLLECTED BY	:		REG. NO./LAB NO.	: 012407200036
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ARCODE NO.	:01513488		COLLECTION DATE	: 20/Jul/2024 10:09AM
LIENT CODE.	: KOS DIAGNOSTIC LA		REPORTING DATE	: 20/Jul/2024 11:19AM
LIENT ADDRESS		ROAD, AMBALA CANTT		
	10010/1,11011022011			
est Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
		VITAMIN D/25 HY	DROXY VITAMIN D3	
	ROXY VITAMIN D3): SEF VESCENCE IMMUNOASSAY		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
ITERPRETATION:				
	CIENT:	< 20		g/mL
	FICIENT:	<u>21 - 29</u> 30 - 100		g/mL
	CATION:	> 100		g/mLg/mL
issue and tightly bou . Vitamin D plays a p shosphate reabsorpt Severe deficiency n DECREASED: . Lack of sunshine ex . Inadeguate intake, . Depressed Hepatic Secondary to advar . Osteoporosis and S Enzyme Inducing dr NCREASED: . Hypervitaminosis E evere hypercalcemia AUTION : Replaceme hypervitaminosis D	und by a transport prote rimary role in the maint ion, skeletal calcium dep nay lead to failure to mir posure. malabsorption (celiac d Vitamin D 25- hydroxyla need Liver disease econdary Hyperparathro rugs: anti-epileptic drugs D is Rare, and is seen onlia and hyperphophatemia nt therapy in deficient ir	in while in circulation. enance of calcium homeo osition, calcium mobiliza heralize newly formed ostr isease) se activity hidism (Mild to Moderate like phenytoin, phenobar y after prolonged exposur dividuals must be monito	ostatis. It promotes calciun tion, mainly regulated by p eoid in bone, resulting in r deficiency) rbital and carbamazepine, re to extremely high doses ored by periodic assessmen	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in it of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i>
nterefere with Vitami	ιι υ αυνοιρτιοπ.			





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ARCODE NO.	: 01513488		COLLECTION DATE	: 20/Jul/2024 10:09AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Jul/2024 11:34AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
<u>ITERPRETATION:-</u> INCREAS	SED VITAMIN B12		DECREASED VITAMIN	
	1.0	1.5		N B12
1.Ingestion of Vitan		1.Pregna	incy	
1.Ingestion of Vitan 2.Ingestion of Estro	gen	2.DRUGS	incy S:Aspirin, Anti-convulsants	
1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	gen hin A	2.DRUG 3.Ethance	incy	
1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	gen hin A jury	2.DRUGS 3.Ethano 4. Contra 5.Haemo	ncy S:Aspirin, Anti-convulsants Il Igestion aceptive Harmones odialysis	
1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	gen hin A jury	2.DRUGS 3.Ethano 4. Contra 5.Haemo 6. Multip	ncy S:Aspirin, Anti-convulsants ol Igestion aceptive Harmones odialysis ole Myeloma	





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NAME AGE/ GENDER	: Mr. MANPREET SINGH : 26 YRS/MALE	PATIEN	TID	: 1555006
	. 20 TRS/ WALL			
COLLECTED BY	:		D./LAB NO.	: 012407200036
REFERRED BY	:		RATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	: 01513488	COLLEC	TION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 20/Jul/2024 10:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, .	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
		OUTINE & MICROSCO	PIC EXAMINAT	TION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVE	D	10	ml	
	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
COLOUR	CTANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECIROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY			OLE IN
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	CTANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION	CTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROFILOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
SUGAR		Negative		NEGATIVE (-ve)
-	CTANCE SPECTROPHOTOMETRY			
pH	CTANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY	riogativo		
NITRITE		Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY.	Normal		0.2 1.0
UROBILINOGEN	CTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY			
ASCORBIC ACID	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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 Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mr. MANPREET SINGH			
AGE/ GENDER	: 26 YRS/MALE	PATIEN	T ID	: 1555006
COLLECTED BY	:	REG. NO)./LAB NO.	: 012407200036
REFERRED BY	:	REGIST	RATION DATE	: 20/Jul/2024 10:05 AM
BARCODE NO.	:01513488	COLLEC	TION DATE	: 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 20/Jul/2024 10:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS		1-3	/HPF	0 - 5

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
EPITHELIAL CELLS	1-2	/HPF	ABSENT	
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	NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT



(an-

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

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	Dr. Vinay Ch MD (Pathology & Chairman & Cor	& Microbiology)	Yugam Chopra MD (Pathology) onsultant Pathologist
NAME	: Mr. MANPREET SINGH		
AGE/ GENDER	: 26 YRS/MALE	PATIENT ID	: 1555006
COLLECTED BY	:	REG. NO./LAB N	0. : 012407200036
REFERRED BY	:	REGISTRATION	DATE : 20/Jul/2024 10:05 AM
BARCODE NO.	: 01513488	COLLECTION DA	TE : 20/Jul/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	FE : 24/Jul/2024 08:51AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	
Test Name		Value U	Init Biological Reference interval

KOS Diagnostic Lab (A Unit of KOS Healthcare)

CHLAMYDIA TRACHOMATIS DNA DETECTION

CHLAMYDIA TRACHOMATIS DNA DETECTION by PCR (POLYMERASE CHAIN REACTION)

Target Not Detected

INTERPRETATION: CLINICAL SIGNIFICANCE:

1. Chlamydia trachomatis is a common sexually transmitted infection (STI) caused by bacteria, which can manifest in various ways, including:

 Charnydia trachomatis is a common sexually transmitted infection (STI) caused by bacteria, which can halfnest in various ways, including: trachoma, lymphogranuloma venereum, nongonococcal urethritis, cervicitis, salpingitis, pelvic inflammatory disease.
 Chlamydia trachomatis affects both men and women and occurs in all age groups, though it's most prevalent among young women. Chlamydia isn't difficult to treat once you know you have it. If left untreated, however, it can lead to more-serious health problems.
 Early-stage Chlamydia trachomatis infections often cause few or no signs and symptoms. When signs or symptoms occur, they usually start one to two weeks after exposure to chlamydia. Even when signs and symptoms occur, they're often mild and passing, making them easy to overlook. d. It's also possible to acquire chlamydial eye infections (conjunctivitis) through contact with infected secretions. LIMITATIONS:

1. The results of this test are highly dependent on the sampling technique employed, sample type, cold-chain maintenance and clinical condition. 2. Please note that false-negative report may be generated in cases where there is possibility of presence of PCR inhibitors (cannot be traced by technologist) or viral load lesser than the assay lower limit of detection as well as presence of rare genetic mutation.

3. Please note that false-positive report may be generated in cases where there is possibility of background DNA contamination from pre analytical or in lab environment.

4. The assay performance characteristics for this test are determined by STMPL which is used for clinical diagnosis.
5. There is poor standardization between commercially available PCR tests, and results from different institutions should not be directly compared. Results are best monitored using a single institution.

*** End Of Report ***





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