





Dr. Vinay Choj MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD (f CEO & Consultant F	Pathology)
NAME : Mr. JAI PAL			
AGE/ GENDER : 53 YRS/MALE	P	ATIENT ID	: 1577909
COLLECTED BY :	R	REG. NO./LAB NO.	: 012408120011
REFERRED BY :	R	REGISTRATION DATE	: 12/Aug/2024 08:57 AM
BARCODE NO. : 01514917	C	COLLECTION DATE	: 12/Aug/2024 09:00AM
CLIENT CODE. : KOS DIAGNOSTIC LAB	R	REPORTING DATE	: 12/Aug/2024 10:06AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
		LNESS PANEL: GT OD COUNT (CBC)	
HAEMOGLOBIN (HB)	14.4	gm/dL	12.0 - 17.0
by CALORIMETRIC		· ·	
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	5.46 ^H	Millions/cr	mm 3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	44.9	%	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	82.2	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZEF	26.4 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by calculated by automated hematology analyzer	32.2	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	14.6	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	44.7	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	15.05	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by Calculated	22	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7600	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MICROSCOPY	NIL &		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MICROSCOPY	NIL &	%	< 10 %
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			





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

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			/
Test Name	Value	e Unit	Biological Reference interval

			3
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	55	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	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	4180	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2584	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	456 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	380	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	0 RS.	/cmm	0 - 110
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	183000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.25	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	14 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	96000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	52.3 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.7	%	15.0 - 17.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, J	AMDALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	GL		Unit MOGLOBIN (HBA1C)	Biological Reference interval
		YCOSYLATED HAEN		Biological Reference interval
GLYCOSYLATED HAEM WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR	OGLOBIN (HbA1c): mance liquid chromatography)		MOGLOBIN (HBA1C)	
GLYCOSYLATED HAEM NHOLE BLOOD by HPLC (HIGH PERFOR STIMATED AVERAGE by HPLC (HIGH PERFOR	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	YCOSYLATED HAEN 12.6 ^H 314.92 ^H	MOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4
GLYCOSYLATED HAEM NHOLE BLOOD by HPLC (HIGH PERFOR STIMATED AVERAGE by HPLC (HIGH PERFOR NTERPRETATION:	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	YCOSYLATED HAEN 12.6 ^H 314.92 ^H ETES ASSOCIATION (AD	MOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEM NHOLE BLOOD by HPLC (HIGH PERFOR STIMATED AVERAGE by HPLC (HIGH PERFOR <u>NTERPRETATION:</u> RE	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	YCOSYLATED HAEN 12.6 ^H 314.92 ^H ETES ASSOCIATION (AD	MOGLOBIN (HBA1C) % mg/dL MA): TED HEMOGLOGIB (HBAIC) in	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEM NHOLE BLOOD by HPLC (HIGH PERFOR STIMATED AVERAGE by HPLC (HIGH PERFOR NTERPRETATION: RE Non diab	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years	YCOSYLATED HAEN 12.6 ^H 314.92 ^H ETES ASSOCIATION (AD	MOGLOBIN (HBA1C) % mg/dL MA): <u>rED HEMOGLOGIB (HBAIC) in</u> <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEM WHOLE BLOOD by HPLC (HIGH PERFOR STIMATED AVERAGE by HPLC (HIGH PERFOR NTERPRETATION: RE Non diab At I	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	YCOSYLATED HAEN 12.6 ^H 314.92 ^H ETES ASSOCIATION (AD	MOGLOBIN (HBA1C) % mg/dL MA): TED HEMOGLOGIB (HBAIC) in	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEM WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION: RE Non diab At 1	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years	YCOSYLATED HAEN 12.6 ^H 314.92 ^H ETES ASSOCIATION (AD	MOGLOBIN (HBA1C) % mg/dL PA): <u><5.7</u> <u>5.7 - 6.4</u> >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEM WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAGE by HPLC (HIGH PERFOR INTERPRETATION: RE Non diab At 1	OGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	YCOSYLATED HAEN 12.6 ^H 314.92 ^H ETES ASSOCIATION (AD	MOGLOBIN (HBA1C) % mg/dL A): <u>(5.7)</u> 5.7 – 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

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

Goal of therapy:

Age < 19 Years

<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.





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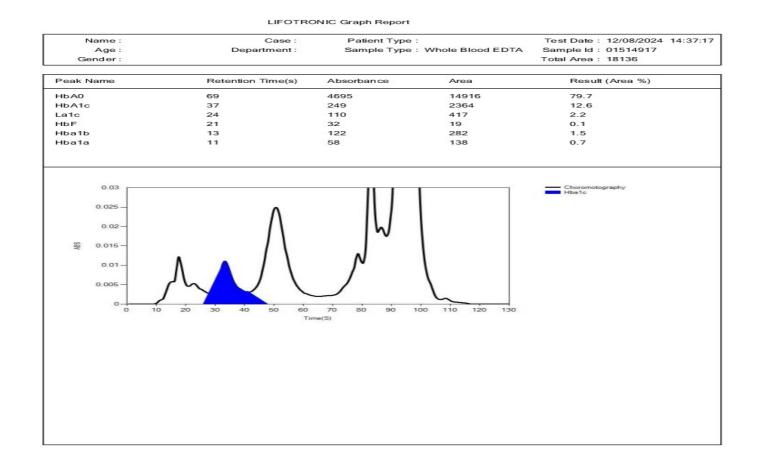








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Test Name	V	alue Unit	Biological Reference interval





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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTI	,	
Test Name		Value	Unit	Biological Reference interval
	ER	YTHROCYTE SEDI	MENTATION RATE (ES	R)
	MENTATION RATE (ESR)	17	mm/1st h	0 - 20
systemic lupus erythe CONDITION WITH LOY A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive	be used to monitor disease a ematosus W ESR n with conditions that inhibi nificantly high white blood of e cell anaemia) also lower t e protein (C-RP) are both ma is not change as rapidly as di by as many other factors as	t the normal sedime ell count (leucocytos he ESR. rkers of inflammation bes CRP, either at the is ESR, making it a be	ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or a tter marker of inflammatio r	bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suc s it resolves.
 CRP is not affected If the ESR is elevated Women tend to ha Drugs such as dext 	ed, it is typically a result of t ve a higher ESR, and menstru ran, methyldopa, oral contr d quinine may decrease it	uation and pregnancy	can cause temporary eleva	





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Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTR	Y/BIOCHEMISTR	Y
		GLUCOSE FA	ASTING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA E - PEROXIDASE (GOD-POD)	283.3 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpti	H AMERICAN DIABETES ASSOCIAT lucose level below 100 mg/dl is lucose level between 100 - 125 r on of 75 gms of glucose) is recor lucose level of above 125 mg/dl ng plasma glucose level in exces	considered normal. ng/dl is considered a nmended for all such	s glucose intolerant or patients. f diabetic state. A repe th occasions is confirm	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a natory for diabetic state.





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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		194.49	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	259.62 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTEROL (I		34.14	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: S		108.43	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 CHOLESTEI by CALCULATED, SPE		160.35 ^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
/LDL CHOLESTEROL:		51.92 ^H	mg/dL	0.00 - 45.00
by CALCULATED, SPE OTAL LIPIDS: SERUN by CALCULATED, SPE	Л	648.6	mg/dL	350.00 - 700.00
by CALCULATED, SPEC CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	5.7 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by calculated, spe		3.18 ^H	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		7.6 ^H	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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LIVE	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.68	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.18	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry	0.5	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	23.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM <i>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE</i>	34.6	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.67	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	111.52	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	99.39 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.95	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	3.88	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.07	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by Calculated, spectrophotometry	1.26	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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NAME	: Mr. JAI PAL		
AGE/ GENDER	: 53 YRS/MALE	PATIENT ID	: 1577909
COLLECTED BY	:	REG. NO./LAB NO.	: 012408120011
REFERRED BY	:	REGISTRATION DATE	: 12/Aug/2024 08:57 AM
BARCODE NO.	:01514917	COLLECTION DATE	: 12/Aug/2024 09:00AM
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Test Name		Value Unit	Biological Reference interval

DECREASED:

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

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

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



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Test Name		Value	Unit	Biological Reference interval	
	KIE	ONEY FUNCTION	TEST (COMPLETE)		
UREA: SERUM		23.84	mg/dL	10.00 - 50.00	
<i>by UREASE - GLUTAN</i> CREATININE: SERUN	IATE DEHYDROGENASE (GLDH)	0.86	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC		0.00	TTIQ/ UL	0.40 - 1.40	
	GEN (BUN): SERUM	11.14	mg/dL	7.0 - 25.0	
by CALCULATED, SPE BLOOD URFA NITRO	GEN (BUN)/CREATININE	12.95	RATIO	10.0 - 20.0	
RATIO: SERUM					
by CALCULATED, SPE UREA/CREATININE F		27.72	RATIO		
by CALCULATED, SPE		21.12	KATIO		
URIC ACID: SERUM		7.23	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS CALCIUM: SERUM	E PERUXIDASE	9.83	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE			°,		
PHOSPHOROUS: SER by PHOSPHOMOLYBE	RUM DATE, SPECTROPHOTOMETRY	4.2	mg/dL	2.30 - 4.70	
ELECTROLYTES	,				
sodium: serum		139.5	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV POTASSIUM: SERUN		4.2	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV		4.2	THITIOI/L	5.50 - 5.00	
CHLORIDE: SERUM		104.63	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV	E ELECTRODE)				

ESTIMATED GLOMERULAR FILTERATION RATE

ESTIMATED GLOMERULAR FILTERATION RATE (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.

103.5

2. Catabolic states with increased tissue breakdown.



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Test Name		Value	Unit	Biological Reference interval
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis	nd starvation. e. ccreased urea synthesis. (urea rather than creatinine dif	NE LEVELS: more than creatini e. fuses out of extrac		athy).
7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<	Imonemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN	mone) due to tubu INE:		
2. Rhabdomyolysis (r	py (accelerates conversion of c eleases muscle creatinine). who develop repaid failure	reatine to creatinir	ne).	

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).

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



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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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Test Name		Value	Unit	Biological Reference interval
		AMYL	ASE	
AMYLASE - SERUM by CNPG 3, SPECTRO INTERPRETATION	PHOTOMETRY	26.07	IU/L	0 - 90

COMMENTS

1.Amylase is produced in the Pancreas and most of the elevation in serum is due to increased rate of Amylase entry into the blood stream / decreased rate of clearance or both.

2.Serum Amylase rises within 6 to 48 hours of onset of Acute pancreatitis in 80% of patients, but is not proportional to the severity of the disease.

3.Activity usually returns to normal in 3-5 days in patients with milder edematous form of the disease.
4.Values persisting longer than this period suggest continuing necrosis of pancreas or Pseudocyst formation.
5.Approximately 20% of patients with Pancreatitis have normal or near normal activity.
6.Hyperlipemic patients with Pancreatitis also show spuriously normal Amylase levels due to suppression of Amylase activity by triglyceride.
7.Low Amylase levels are seen in Chronic Pancreatitis, Congestive Heart failure, 2nd & 3rd trimesters of pregnancy, Gastrointestinal cancer & bare fortunes. bone fractures.





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Test Name		Value	Unit	Biological Reference interval
		LIPASI		
LIPASE - SERUM		32.32	U/L	0 - 60

by METHYL RESORUFIN, SPECTROPHOTOMETRY

INTERPRETATION

1. Pancreas is the major and primary source of serum lipase though lipases are also present in liver, stomach, intestine, WBC, fat cells and milk.

2. In acute pancreatitis, serum lipase becomes elevated at the same time as amylase and remains high for 7-10 days.

3. Increased lipase activity rarely lasts longer than 14 days.

4. Prolonged increase suggests poor prognosis or presence of a cyst.

5. The combined use of serum lipase and serum amylase is effective in ruling out acute pancreatitis.

INCREASED LEVEL:

1. Acute & Chronic pancreatitis 2. Obstruction of pancreatic duct

3. Non pancreatic conditions like renal diseases, acute cholecystitis, intestinal obstruction, duodenal ulcer, alcoholism, diabetic ketoacidosis and following endoscopic retrograde cholangiopancreatography NOTE:

1. Elevations 2 to 50 times the upper reference have been reported. The increase in serum lipase is not necessarily proportional to the severity of the attack. Normalization is not necessarily a sign of resolution.

ADVICE:

Concomitant testing of serum amylase and lipase is highly recommended to establish a diagnosis of pancreatic injury





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Test Name				Biological Reference interval
		LINDOOK		
	Т	HYROID FUNCT	ION TEST: TOTAL	
		0.864	TON TEST: TOTAL ng/mL	0.35 - 1.93
<i>by CMIA (CHEMILUMIN</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	0.864 ssa <i>y</i>) 10.07		0.35 - 1.93 4.87 - 12.60
THYROXINE (T4): SE by CMIA (CHEMILUMIN THYROID STIMULAT	E (T3): SERUM VESCENT MICROPARTICLE IMMUNOAS RUM VESCENT MICROPARTICLE IMMUNOAS ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNOAS	0.864 SSAY) 10.07 SSAY) 3.982	ng/mL	

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

LIMITATIONS:-

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

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

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

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

TRIIODOTHY	(RONINE (T3)	THYROXINE (T4)		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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Chairman & Consultant Pathologist	CEO & Consultant Pathologist

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Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LE	VELS DURING PREC	SNANCY (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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CLIENI ADDRESS	: 6349/1, NICHOLSON ROA	D, AMDALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
			LOGY/SEROLOGY	
): QUANTITATIVE - S	SERUM
RHEUMATOID (RA) I	FACTOR QUANTITATIVE:	3.12	IU/mL	NEGATIVE: < 18.0
SERUM		0.112		BORDERLINE: 18.0 - 25.0
by NEPHLOMETRY INTERPRETATION:-				POSITIVE: > 25.0
2. The disease spreda 3. The diagnosis of R measurement of RA fi CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid ar RA patients have a no 3. Patients with varioo lupus erythematosus, 4. Anti-CCP have beer specific (98%) than RA 5. Upto 30 % of patier	as from small to large joints, w A is primarily based on clinica actor. TIVE):- ad rheumatoid arthritis (RA) po inreactive titer and 8% of nonri- us nonrheumatoid diseases,cha polymyositis, tuberculosis, syp a discovered in joints of patients	vith greatest damage in al, radiological & immu as it is often present in pulations are not clearly heumatoid patients hav racterized by chronic in hilis, viral hepatitis, infe s with RA, but not in oth toid arthiritis also show	n early phase. inological features. The n healthy individuals with o y separate with regard to re a positive titer). flammation may have po- setious mononucleosis, ar her form of joint disease. A r Anti-CCP antibodies.	Anti-CCP2 is HIGHLY SENSITIVE (71%) & more
F F				





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Test Name		Value Unit	Biological Reference interval
		TUMOUR MARKER	
	CA	RCINO EMBRYONIC ANTIGEN (CEA)	
			5.0
	IIC ANTIGEN (CEA): SERUM ESCENCE IMMUNOASSAY)	3.98 ng/mL	< 5.0

NOTE

Carcinoembryonic antigen levels should not be used for screening of the general population for undetected cancers.
 Grossly elevated carcino-embryonic antigen (CEA) concentrations (>20 ng/mL) in a patient with compatible symptoms are strongly suggestive of the presence of cancer and also suggest metastasis.
 Most healthy subjects (97%) have values < or =3.0 ng/mL.
 After removal of a colorectal tumor, the serum CEA concentration should return to normal by 6 weeks, unless there is residual tumor.

- 5. Increases in test values over time in a patient with a history of cancer suggest tumor recurrence.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	: 14/Aug/2024 04:23PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		MICROBIO			
CULTURE AND SUSC		C BACTERIA AND A	NTIBIOTIC SENSI	TIVITY: URINE	
DATE OF SAMPLE		12-08-2024			
SPECIMEN SOURCE		URINE			
NCUBATION PERIO		48 HOURS			
CULTURE by AUTOMATED BROT	TH CULTURE	STERILE			
ORGANISM by AUTOMATED BROTH CULTURE		NO AEROBIC PYOGENIC ORGANISM GROWN AFTER 48 HOURS OF INCUBATION AT 37*C			
by AUTOMATED BRO					
by AUTOMATED BROT	<u>BILITY: URINE</u>				

2. Colony count of 100 to 10000/ mL indicate infection, if isolate from specimen obtained by suprapubic aspiration or "in-and-out" catheterization or from patients with indwelling catheters.

SUSCEPTIBILITY:

1. A test interpreted as SENSTITIVE implies that infection due to isolate may be appropriately treated with the dosage of an antimicrobial agent

recommended for that type of infection and infecting species, unless otherwise indicated.. 2. A test interpreted as **INTERMEDIATE** implies that the Infection due to the isolate may be appropriately treated in body sites where the drugs are physiologically concentrated or when a high dosage of drug can be used". 3.A test interpreted as **RESISTANT** implies that the "isolates are not inhibited by the usually achievable concentration of the agents with normal

dosage, schedule and/or fall in the range where specific microbial resistance mechanism are likely (e.g. beta-lactamases), and clinical efficacy has not been reliable in treatment studies.

CAUTION:

Conditions which can cause a false Negative culture: 1. Patient is on antibiotics. Please repeat culture post therapy.

2. Anaerobic bacterial infection.

- 3. Fastidious aerobic bacteria which are not able to grow on routine culture media.
- 4. Besides all these factors, at least in 25-40 % of cases there is no direct correlation between in vivo clinical picture.

5. Renal tuberculosis to be confirmed by AFB studies.

*** End Of Report ***



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