



SO 9001 : 2008 CERTIFIED LAB		EXCELLENCE IN HEALTHCARE & DIAGNOS	1103
MD (Patho	ay Chopra blogy & Microbiology) & Consultant Pathologist	Dr. Yugam Cho MD (Pathol CEO & Consultant Patholo	ogy)
NAME : Mr. AVTAR			
AGE/ GENDER : 45 YRS/MALE	PATIE	NT ID : 163	38657
COLLECTED BY :	REG. N	0./LAB NO. :01	2410090009
REFERRED BY :			/Oct/2024 07:46 AM
BARCODE NO. : 01518566			/Oct/2024 07:50AM
CLIENT CODE. : KOS DIAGNOSTIC LAB		RTING DATE : 09/	/Oct/2024 08:44AM
CLIENT ADDRESS : 6349/1, NICHOLSON F	XUAD, AMBALA CANTI		
Test Name	Value	Unit	Biological Reference interval
	SWASTHYA WELLNES	SS PANEL: 1.5	
	COMPLETE BLOOD C	OUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICI			
HAEMOGLOBIN (HB) by CALORIMETRIC	15.5	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMP	5.24 ^H	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY A	47.5	%	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY A	90.8	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY A	29.6	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (N by CALCULATED BY AUTOMATED HEMATOLOGY A	VICHC) 32.6	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY A	13.7	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY A	46.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	17.33	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	23.76	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 & MICROSCOP	10150 Y	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by calculated by automated hematology a DIFFERENTIAL LEUCOCYTE COUNT (DLC)	NIL	%	< 10 %
NEUTROPHILS by flow cytometry by sf cube & microscop	67	%	50 - 70

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 Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AVTAR AGE/ GENDER : 45 YRS/MALE **PATIENT ID** :1638657 **COLLECTED BY** :012410090009 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :09/Oct/2024 07:46 AM **BARCODE NO.** :01518566 **COLLECTION DATE** :09/0ct/2024 07:50AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Oct/2024 08:44AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 22 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 6801 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2233 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 40 - 440 508^H /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 609 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 242000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.28 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 6.50 - 12.0 fl by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 95000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 39.1 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.3 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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>8.0

<7.5

	Dr. Vinay Cł MD (Pathology & Chairman & Cor	& Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AVTAR			
AGE/ GENDER	: 45 YRS/MALE	PATIEN	T ID	: 1638657
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	G	LYCOSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	DGLOBIN (HbA1c):	5	%	4.0 - 6.4
ESTIMATED AVERAGE		96.8	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIA	BETES ASSOCIATION (ADA):		
	FERENCE GROUP		Moglogib (HBAIC) ir	۱%
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)		7-6.4	
Dia	gnosing Diabetes		>= 6.5 • 19 Years	
		Goals of Therapy:	< 7.0	
Thorapoutic	goals for alycomic control	Actions Consected	(7.0	

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

Actions Suggested:

Goal of therapy

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

Age < 19 Years

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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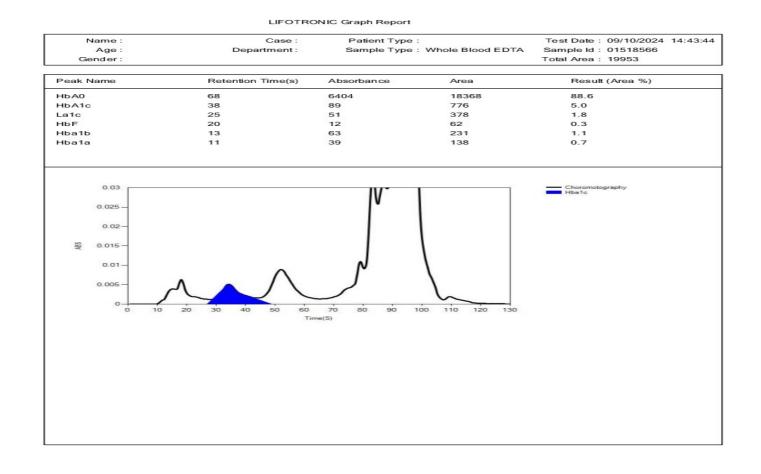
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	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P	ology) MD	n Chopra 9 (Pathology) t Pathologist
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Test Name	Va	lue Unit	Biological Reference interval







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CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA CAN	TT	
Test Name	_	Value	Unit	Biological Reference interval
		ERYTHROCYTE SE	DIMENTATION RATE (E	SR)
RYTHROCYTE SEDI	MENTATION RATE (E	SR) 8	mm/1st	hr 0-20
by RED CELL AGGRE NTERPRETATION:	GATION BY CAPILLARY	PHOTOMETRY		
as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see polycythaemia), sigi as sickle cells in sick VOTE: I. ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha	be used to monitor of ematosus W ESR n with conditions that ificantly high white e cell anaemia) also e protein (C-RP) are b es not change as rapic by as many other fa ed, it is typically a re ve a higher ESR, and	isease activity and respor t inhibit the normal sedin blood cell count (leucocyt lower the ESR. oth markers of inflammat ily as does CRP, either at tors as is ESR, making it a sult of two types of protei menstruation and pregna il contraceptives, penicilla	nse to therapy in both of the nentation of red blood cells, osis), and some protein abn ion. the start of inflammation or better marker of inflammati ns, globulins or fibrinogen.	on. vations.
. Drugs such as dex spirin, cortisone, ar	id quinine may decre	ase it	amine procainamide, theoph	ylline, and vitamin A can increase ESR, while





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CLIENT ADDRESS				
Test Name		Value	Unit	Biological Reference interval
		Value	//BIOCHEMISTR	

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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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AVTAR AGE/ GENDER : 45 YRS/MALE **PATIENT ID** :1638657 **COLLECTED BY** :012410090009 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :09/Oct/2024 07:46 AM **BARCODE NO.** :01518566 **COLLECTION DATE** :09/Oct/2024 07:50AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Oct/2024 10:08AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM 139.75 mg/dL OPTIMAL: < 200.0 by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 TRIGLYCERIDES: SERUM 65.75 mg/dL OPTIMAL: < 150.0 by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 HDL CHOLESTEROL (DIRECT): SERUM 54.71 mg/dL LOW HDL: < 30.0 by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -60.0 HIGH HDL: > OR = 60.0 LDL CHOLESTEROL: SERUM 71.89 mg/dL OPTIMAL: < 100.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 NON HDL CHOLESTEROL: SERUM 85.04 mg/dL OPTIMAL: < 130.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 VLDL CHOLESTEROL: SERUM 13.15 mg/dL 0.00 - 45.00 by CALCULATED, SPECTROPHOTOMETRY **TOTAL LIPIDS: SERUM** mg/dL 350.00 - 700.00 345.25^L by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM 2.55 RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LDL/HDL RATIO: SERUM 1.31 RATIO LOW RISK: 0.50 - 3.0 by CALCULATED, SPECTROPHOTOMETRY MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM	1.2 ^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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Unit

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Value

Value	onne	
ER FUNCTION TES	ST (COMPLETE)	
0.82	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
0.37	mg/dL	0.00 - 0.40
0.45	mg/dL	0.10 - 1.00
25.81	U/L	7.00 - 45.00
33.15	U/L	0.00 - 49.00
0.78	RATIO	0.00 - 46.00
66	U/L	40.0 - 150.0
58 ^H	U/L	0.00 - 55.0
7.63	gm/dL	6.20 - 8.00
4.67	gm/dL	3.50 - 5.50
2.96	gm/dL	2.30 - 3.50
1.58	RATIO	1.00 - 2.00
	0.82 0.37 0.45 25.81 33.15 0.78 66 58^H 7.63 4.67 2.96	0.37mg/dL0.45mg/dL25.81U/L33.15U/L0.78RATIO66U/L58 ^H U/L7.63gm/dL4.67gm/dL2.96gm/dL

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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Biological Reference interval

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Test Name





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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:

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
ки	ONEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	16.04	mg/dL	10.00 - 50.00
CREATININE: SERUM by enzymatic, spectrophotometery	0.72	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by Calculated, spectrophotometry	7.5	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM <i>by Calculated, spectrophotometry</i>	10.42	RATIO	10.0 - 20.0
JREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	22.28	RATIO	
JRIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.7	mg/dL	3.60 - 7.70
CALCIUM: SERUM by Arsenazo III, spectrophotometry	9.4	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry ELECTROLYTES	2.89	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)	4.11	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>	114.8		

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)



NAME

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	MD (Patho	y Chopra ology & Microbiology) & Consultant Pathologist	Dr. Yugan MD CEO & Consultan	n Chopra 9 (Pathology) 1t Pathologist
NAME	: Mr. AVTAR			
AGE/ GENDER	: 45 YRS/MALE	PA	TIENT ID	: 1638657
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012410090009
REFERRED BY	:	RE	GISTRATION DATE	: 09/Oct/2024 07:46 AM
BARCODE NO.	:01518566	CO	LLECTION DATE	: 09/Oct/2024 07:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 09/Oct/2024 10:08AM
CLIENT ADDRESS	: 6349/1, NICHOLSON H	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
 Reduced muscle n Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam 	superimposed on renal di 10:1) WITH DECREASED BU rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinin monemias (urea is virtual	ds) TININE LEVELS: ately more than creatinine) sease. N : N : he diffuses out of extracellu y absent in blood).	ılar fluid).	athy).
7. SIADH (syndrome) 8. Pregnancy.	of inappropiate antidiureti	r harmona) dua to tubular		
	10:1) WITH INCREASED CRE		secretion of urea.	

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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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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	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F	viology) MD	n Chopra 9 (Pathology) t Pathologist
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Test Name	Value	Unit	Biological Reference interval
	IRON PROI	FILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY	124.5	μg/dL	65.0 - 175.0
UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM by FERROZINE, SPECTROPHOTOMETERY	187.8	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC) :SERUM by SPECTROPHOTOMETERY	312.3	μg/dL	230 - 430
%TRANSFERRIN SATURATION: SERUM by CALCULATED, SPECTROPHOTOMETERY (FERENE)	39.87	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	221.73	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:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

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

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





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Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	Т	HYROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM Vescent microparticle immunoas	0.956 say)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM vescent microparticle immunoas	7.64 SAY)	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	1.111 SAY)	μlU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the trilodothyronine (T3).Fai		l stimulates the pro	oduction and secretion of the m	m. The variation is of the order of 50%.Hence time of 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	(RONINE (T3)	THYROX	(INE (T4)	THYROID STIMUL	ATING 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

`	3//	(Pathology) : Pathologist
: Mr. AVTAR		
: 45 YRS/MALE	PATIENT ID	: 1638657
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V	Zalue Unit	Biological Reference interval
	Chairman & Consultant I : Mr. AVTAR : 45 YRS/MALE : : : 01518566 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBAL	Chairman & Consultant Pathologist CEO & Consultant : Mr. AVTAR : 45 YRS/MALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 01518566 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT

			value	onit		biological Reference inte
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	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREG	NANCY (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.



AGE/ GENDER : 45 Y COLLECTED BY : REFERRED BY : BARCODE NO. : 015 CLIENT CODE. : KOS CLIENT ADDRESS : 634 Test Name VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENC INTERPRETATION: DEFICIENT: INSUFFICIENT PREFFERED RAM INTOXICATION 1.Vitamin D compounds are conversion of 7- dihydrocho 2.25-OHVitamin D represei	VITAMIN D3): SERUM CE IMMUNOASSAY) I:	REG REG COJ REJ	OXY VITAMIN D3 ng/mL	: 1638657 : 012410090009 : 09/Oct/2024 07:46 AM : 09/Oct/2024 07:50AM : 09/Oct/2024 10:08AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
COLLECTED BY : REFERRED BY : BARCODE NO. : 015 CLIENT CODE. : KOS CLIENT ADDRESS : 634 Test Name //ITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENC //ITAMIN D (25-HYDROXY V //ITAMIN D (25-HYDROXY V /	518566 S DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, VIT VITAMIN D3): SERUM <i>CE IMMUNOASSAY</i>)	REG REG COJ REJ AMBALA CANTT Value VITAM VITAM A0.8	S. NO./LAB NO. SISTRATION DATE LECTION DATE ORTING DATE Unit INS OXY VITAMIN D3 ng/mL	: 012410090009 : 09/Oct/2024 07:46 AM : 09/Oct/2024 07:50AM : 09/Oct/2024 10:08AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
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INSUFFICIENT PREFFERED RAM INTOXICATION .Vitamin D compounds are onversion of 7- dihydrocho .25-OHVitamin D represer			I I I I	
PREFFERED RAM INTOXICATION .Vitamin D compounds are onversion of 7- dihydrocho 2.25-OHVitamin D represer			na	g/mL
.Vitamin D compounds are onversion of 7- dihydrocho .25-OHVitamin D represer		30 - 100 > 100	ng	g/mL g/mL
3. Vitamin D plays a primary phosphate reabsorption, ske 4. Severe deficiency may lead DECREASED: 1. Lack of sunshine exposure 2. Inadequate intake, malabs 3. Depressed Hepatic Vitamii 4. Secondary to advanced Liv 5. Osteoporosis and Seconda 6. Enzyme Inducing drugs: ar INCREASED: 1. Hypervitaminosis D is Raru severe hypercalcemia and hy CAUTION : Replacement ther hypervitaminosis D	blecalciferol to Vitamin D3 ents the main body resevoi a transport protein while v role in the maintenance eletal calcium deposition, d to failure to mineralize e. psorption (celiac disease) in D 25- hydroxylase activit ver disease ary Hyperparathroidism (N nti-epileptic drugs like phere re, and is seen only after p hyperphophatemia. rapy in deficient individua uals as compare to whites,	3 in the skin upon Ultr ir and transport form of in circulation. of calcium homeostat , calcium mobilization newly formed osteoic ity Mild to Moderate defi enytoin, phenobarbita prolonged exposure to ils must be monitored	aviolet exposure. of Vitamin D and transp is. It promotes calcium mainly regulated by p in bone, resulting in ri ciency) I and carbamazepine, t extremely high doses o by periodic assessment	port form of Vitamin D, being stored in adiponation and a stored in adiponation and





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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







AME : Mr. AVTAR GE/ GENDER : 45 YRS/MALI			
GE/ GENDER : 45 YRS/MALI			
GE/ GENDER : 45 IRS/ MALI	E PA	TIENT ID	: 1638657
OLLECTED BY :	RI	G. NO./LAB NO.	: 012410090009
EFERRED BY :	RI	GISTRATION DATE	: 09/Oct/2024 07:46 AM
ARCODE NO. : 01518566	CC	LLECTION DATE	:09/Oct/2024 07:50AM
LIENT CODE. : KOS DIAGNO	STIC LAB	PORTING DATE	: 09/Oct/2024 10:08AM
	HOLSON ROAD, AMBALA CANTT		
est Name	Value	Unit	Biological Reference interval
ITAMIN B12/COBALAMIN: SERUM by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY)	100	pg/mL	190.0 - 890.0
by CMIA (CHEMILUMINESCENT MICROP MMUNOASSAY) <u>VTERPRETATION:-</u>	PARTICLE		
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12	PARTICLE	DECREASED VITAMIN E	
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C	2 1.Pregnanc	DECREASED VITAMIN E	312
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Estrogen 3.Ingestion of Vitamin A	2. 1.Pregnanc 2.DRUGS:A 3.Ethanol Ig	DECREASED VITAMIN E y spirin, Anti-convulsants, C jestion	312
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Estrogen 3.Ingestion of Vitamin A 4.Hepatocellular injury	2. 1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace	DECREASED VITAMIN E y spirin, Anti-convulsants, C jestion ptive Harmones	312
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) VTERPRETATION:- INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 3.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder	2. ARTICLE 2. 1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi	DECREASED VITAMIN E spirin, Anti-convulsants, C jestion ptive Harmones alysis	312
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) VTERPRETATION:- INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 3.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia	2. I.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi 6. Multiple	DECREASED VITAMIN E spirin, Anti-convulsants, C jestion ptive Harmones alysis Myeloma	312
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) VTERPRETATION:- INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 3.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia .Vitamin B12 (cobalamin) is necessa	2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	DECREASED VITAMIN E spirin, Anti-convulsants, C jestion ptive Harmones alysis Myeloma uronal function.	212 Colchicine
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 3.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia Vitamin B12 (cobalamin) is necessa In humans, it is obtained only from The body uses its vitamin B12 stores	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	DECREASED VITAMIN E spirin, Anti-convulsants, C gestion ptive Harmones alysis Myeloma uronal function. sic factor (IF) for absorpti	212 Colchicine
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia .Vitamin B12 (cobalamin) is necessa .In humans, it is obtained only from .The body uses its vitamin B12 store: xcreted.	ARTICLE 1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi 6. Multiple animal proteins and neguires intrins s very economically, reabsorbing vita	DECREASED VITAMIN E spirin, Anti-convulsants, C gestion ptive Harmones alysis Myeloma uronal function. sic factor (IF) for absorption min B12 from the ileum a	B12 Colchicine
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia .Vitamin B12 (cobalamin) is necessa .In humans, it is obtained only from .The body uses its vitamin B12 store: xcreted. .Vitamin B12 deficiency may be due	ARTICLE 1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi 6. Multiple animal proteins and normal ne animal proteins and requires intrins s very economically, reabsorbing vita to lack of IF secretion by gastric muc	DECREASED VITAMIN E spirin, Anti-convulsants, C gestion ptive Harmones alysis Myeloma uronal function. sic factor (IF) for absorption min B12 from the ileum a	312 Colchicine
by CMIA (CHEMILUMINESCENT MICROP MUNOASSAY) <u>VTERPRETATION:-</u> INCREASED VITAMIN B12 1.Ingestion of Vitamin C 2.Ingestion of Vitamin A 3.Ingestion of Vitamin A 4.Hepatocellular injury 5.Myeloproliferative disorder 6.Uremia .Vitamin B12 (cobalamin) is necessa .In humans, it is obtained only from .The body uses its vitamin B12 store: xcreted. .Vitamin B12 deficiency may be due eal resection, small intestinal disea: .Vitamin B12 deficiency frequently c	ARTICLE 1.Pregnanc 2.DRUGS:A 3.Ethanol Ig 4. Contrace 5.Haemodi 6. Multiple ry for hematopoiesis and normal ne animal proteins and requires intrins s very economically, reabsorbing vita to lack of IF secretion by gastric muc ses). causes macrocytic anemia, glossitis,	DECREASED VITAMIN E spirin, Anti-convulsants, C gestion ptive Harmones alysis Myeloma uronal function. sic factor (IF) for absorption min B12 from the ileum a cosa (eg, gastrectomy, gas peripheral neuropathy, w	B12 Colchicine

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)



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	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AVTAR			
AGE/ GENDER	: 45 YRS/MALE	PATIE	NT ID	: 1638657
COLLECTED BY	:	REG. N	O./LAB NO.	: 012410090009
REFERRED BY	:	REGIST	FRATION DATE	: 09/Oct/2024 07:46 AM
BARCODE NO.	:01518566	COLLE	CTION DATE	: 09/Oct/2024 07:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 09/Oct/2024 10:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
	URINE R	OUTINE & MICROSCO	OPIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVE		10	ml	
	TANCE SPECTROPHOTOMETRY			
COLOUR		AMBER YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
CHEMICAL EXAMINA	TANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	/ GIBIO		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	nogativo		
pH		<=5.0		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	worman	LU/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	negative		NEGATIVE (-VE)
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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

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



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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CLIENT CODE.	: KOS DIAGNOSTIC LAB			:09/Oct/2024 10:00AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM				
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs)	Value NEGATIVE (-ve)	Unit /HPF	Biological Reference interval 0 - 3	
RED BLOOD CELLS (F by MICROSCOPY ON O PUS CELLS				•	
RED BLOOD CELLS (F by MICROSCOPY ON (PUS CELLS by MICROSCOPY ON (EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	

CRYSTALS NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT

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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT

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