

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbiolog) Chairman & Consultant Pathol		(Pathology)
NAME : Mr. JA	IDEEP BHALLA		
AGE/ GENDER : 41 YRS	/MALE	PATIENT ID	: 1623434
COLLECTED BY :		REG. NO./LAB NO.	: 012409240003
REFERRED BY :		REGISTRATION DATE	: 24/Sep/2024 07:39 AM
BARCODE NO. : 015175	582	COLLECTION DATE	: 24/Sep/2024 07:39AM
CLIENT CODE. : KOS DI	AGNOSTIC LAB	REPORTING DATE	: 24/Sep/2024 08:57AM
CLIENT ADDRESS : 6349/	1, NICHOLSON ROAD, AMBALA CAN	NTT	
Test Name	Value	Unit	Biological Reference interval
	SWASTHYA	WELLNESS PANEL: 1.5	
	COMPLETE	BLOOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COL			
HAEMOGLOBIN (HB) by calorimetric	13.9	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUN by HYDRO DYNAMIC FOCUSING,		Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUME (PCV)	44.6	%	40.0 - 54.0
by CALCULATED BY AUTOMATED MEAN CORPUSCULAR VOLUM	E (MCV) 88.7	fL	80.0 - 100.0
by CALCULATED BY AUTOMATEL MEAN CORPUSCULAR HAEMO	GLOBIN (MCH) 27.6	pg	27.0 - 34.0
by CALCULATED BY AUTOMATEL	LOBIN CONC. (MCHC) 31.2 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATER RED CELL DISTRIBUTION WIDT	TH (RDW-CV) 15.1	%	11.00 - 16.00
by CALCULATED BY AUTOMATED RED CELL DISTRIBUTION WID by CALCULATED BY AUTOMATED	TH (RDW-SD) 51.2	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	17.63	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated	26.59	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TL by FLOW CYTOMETRY BY SF CU		/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS by AUTOMATED 6 PART HEMATC	S (nRBCS) NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS by CALCULATED BY AUTOMATED DIFFERENTIAL LEUCOCYTE CO	S (nRBCS) % NIL D HEMATOLOGY ANALYZER	%	< 10 %
NEUTROPHILS by FLOW CYTOMETRY BY SF CU	BE & MICROSCOPY	%	50 - 70

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







Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. JAIDEEP BHALLA AGE/ GENDER : 41 YRS/MALE **PATIENT ID** :1623434 **COLLECTED BY** :012409240003 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 24/Sep/2024 07:39 AM **BARCODE NO.** :01517582 **COLLECTION DATE** : 24/Sep/2024 07:39AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :24/Sep/2024 08:57AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 43^H LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** 3220 ABSOLUTE NEUTROPHIL COUNT /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3010 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 280 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 490 /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) 223000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.29 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 13^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 104000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 46.8^H % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.7 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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BARCODE NO.	: 01517582		LECTION DATE	: 24/Sep/2024 07:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 24/Sep/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
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Test Name		Value	Unit	Biological Reference interval
ESTIMATED AVERAGI	MOGLOBIN (HbA1c): <i>RMANCE LIQUID CHROMATOGRAPHY)</i> E PLASMA GLUCOSE	5.8	DGLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY)			
		IABETES ASSOCIATION		
	REFERENCE GROUP	GLYCOS	SYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years t Risk (Prediabetes)		<5.7 5.7 – 6.4	
	iagnosing Diabetes		>= 6.5	
		Goals of Th	Age > 19 Years	< 7.0
Therapeutic goals for glycemic control		Actions Suggested:		>8.0
merapeut			Age < 19 Years	

COMMENTS:

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

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

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

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

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



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 24/Sep/2024 09:10AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHR	OCYTE SEDIMENTAT	ION RATE (ESR)	
by RED CELL AGGREC	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	10	mm/1st hr	0 - 20
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also	does not tell the health practitione cted by other conditions besides inf be used to monitor disease activity	r exactly where the infla flammation. For this rea	mmation is in the k son, the ESR is typic	n associated with infection, cancer and auto- oody or what is causing it. cally used in conjunction with other test such ove diseases as well as some others, such as
polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive	N ESR n with conditions that inhibit the no ificantly high white blood cell coun e cell anaemia) also lower the ESR. e protein (C-RP) are both markers o	it (leucocytosis) , and so , f inflammation.	me protein abnorn	nalities. Šome changes in red cell shape (such
 CRP is not affected If the ESR is elevated Women tend to ha Drugs such as dext 	s not change as rapidly as does CRF by as many other factors as is ESR, is ed, it is typically a result of two type ve a higher ESR, and menstruation a ran, methyldopa, oral contraceptive d quinine may decrease it	making it a better marke es of proteins, globulins and pregnancy can cause	er of inflammation. or fibrinogen. e temporary elevation	





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 24/Sep/2024 10:11AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	BIOCHEMISTRY	
		GLUCOSE FAS	TING (F)	
		104.98 ^H	mg/dL	NORMAL: < 100.0

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





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Test Name	Value	Unit	Biological Reference interval
	LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	172.99	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (248.75 ^H ENZYMATIC)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUI by SELECTIVE INHIBITION	M 38.63	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMET	84.61 RY	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 CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOME	134.36 ^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: SERUM by CALCULATED, SPECTROPHOTOME	49.75 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMET	594.73	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOME	4.48 ^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: SERUM by CALCULATED, SPECTROPHOTOMET	2.19 'RY	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	-	Ghopra	

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. JAIDEEP BHALLA			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	6.44 ^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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Dr. Yugam Chopra

	MD (Pathology & Chairman & Con	Microbiology) sultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
NAME	: Mr. JAIDEEP BHALLA			
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Test Name		Value	Unit	Biological Reference interval
	u	VER FUNCTION 1	EST (COMPLETE)	
BILIRUBIN TOTAL: SE		0.47	mg/dL	INFANT: 0.20 - 8.00
•	ONJUGATED): SERUM	0.15	mg/dL	ADULT: 0.00 - 1.20 0.00 - 0.40
	PECTROPHOTOMETRY	0.15	IIIg/uL	0.00 - 0.40
BILIRUBIN INDIRECT	(UNCONJUGATED): SERUM	0.32	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		24.65	U/L	7.00 - 45.00
by IFCC, WITHOUT PYF SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	42.34	U/L	0.00 - 49.00
by IFCC, WITHOUT PYF				
AST/ALT RATIO: SERL by CALCULATED, SPEC		0.58	RATIO	0.00 - 46.00
ALKALINE PHOSPHAT		84.77	U/L	40.0 - 130.0
by PARA NITROPHENY PROPANOL	L PHOSPHATASE BY AMINO METHY			
	TRANSFERASE (GGT): SERUM	105.5 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	RUM	5.94 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	II OT OMETRI	3.6	gm/dL	3.50 - 5.50
by BROMOCRESOL GR	REEN			

Dr. Vinay Chopra

A : G RATIO: SERUM

GLOBULIN: SERUM

by CALCULATED, SPECTROPHOTOMETRY **INTERPRETATION**

by CALCULATED, SPECTROPHOTOMETRY

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)

2.34

1.54





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2.30 - 3.50

1.00 - 2.00

gm/dL

RATIO

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Test Name	Value	e 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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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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AME	: Mr. JAIDEEP BHALLA				
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EFERRED BY			EGISTRATION D		οΔΜ
				I	
ARCODE NO.	: 01517582		DLLECTION DAT	1	
LIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATH	: 24/Sep/2024 10:20	JAM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT			
est Name		Value	Uni	t Biological	Reference interval
Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in	nd starvation. e. creased urea synthesis. (urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic ha to finappropiate antidiuretic	bsent in blood). armone) due to tubular NINE: creatine to creatinine) e increase in creatinine).	secretion of urea	nodologies,resulting in norma	Il ratio when dehydratio
STIMATED GLOMERI	apy (interferes with creatinin JLAR FILTERATION RATE:	e measurement).			
CKD STAGE	DESCRIPTIO		/min/1.73m2)	ASSOCIATED FINDINGS]
G1	Normal kidney fu		>90	No proteinuria	4
G2	Kidney damage	with	>90	Presence of Protein,	1

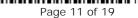
CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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

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









	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa		(Pathology)
NAME	: Mr. JAIDEEP BHALLA		
AGE/ GENDER	: 41 YRS/MALE	PATIENT ID	: 1623434
COLLECTED BY	:	REG. NO./LAB NO.	: 012409240003
REFERRED BY	:	REGISTRATION DATE	: 24/Sep/2024 07:39 AM
BARCODE NO.	: 01517582	COLLECTION DATE	: 24/Sep/2024 07:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 24/Sep/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Val	ue 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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NAME	: Mr. JAIDEEP BHALLA			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM		80.5	μg/dL	59.0 - 158.0
by FERROZINE, SPEC UNSATURATED IRON SERUM by FERROZINE, SPEC	N BINDING CAPACITY (UIBC)	278.69	μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM		359.19	μg/dL	230 - 430

TOTAL IRON BINDING CAPACITY (TIBC) :SERUM	359.19	μg/dL	230 - 430
by SPECTROPHOTOMETERY			
%TRANSFERRIN SATURATION: SERUM by calculated, spectrophotometery (ferene)	22.41	%	15.0 - 50.0
TRANSFERRIN: SERUM by Spectrophotometery (ferene)	255.02	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
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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NAME	: Mr. JAIDEEP BHALLA			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
			ICTION TEST: TOTAL	
	T	HYROID FUN	CTION TEST: TOTAL	
	E (T3): SERUM	0.867	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	0.867 say) 5.85		0.35 - 1.93 4.87 - 12.60

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	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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		Dr. Vinay Ch MD (Pathology & Chairman & Cons			gam Chopra MD (Pathology) ultant Pathologist	
NAME	: Mr. JAIDE	EP BHALLA				
AGE/ GENDER	: 41 YRS/M	ALE]	PATIENT ID	: 1623434	
COLLECTED BY	:]	REG. NO./LAB NO.	:012409240	0003
REFERRED BY	:]	REGISTRATION DAT	FE : 24/Sep/2024	4 07:39 AM
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CLIENT ADDRESS	:6349/1, N	ICHOLSON ROAD,	AMBALA CANTT			
Test News			Mahua	11	Diald	- minel Defense internel
Test Name			Value	Unit	BIOIC	ogical 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	

0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50
RECOM	MENDATIONS OF TSH LE	VELS DURING PREGN	ANCY (μIU/mL)	
1st Trimester			0.10 - 2.50	
2nd Trimester			0.20 - 3.00	
3rd Trimester			0.30 - 4.10	
	0.35 - 1.93 0.35 - 1.93 RECOMM 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LE1st Trimester2nd Trimester	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREGN 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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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	MD (Pa	nay Chopra thology & Microbiology) an & Consultant Pathologi		(Pathology)
NAME	: Mr. JAIDEEP BHAL	LA		
AGE/ GENDER	: 41 YRS/MALE		PATIENT ID	: 1623434
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CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANT'	Г	
Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
		VITAMIN D/25 H	IYDROXY VITAMIN D3	
	ROXY VITAMIN D3): SE NESCENCE IMMUNOASSA		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
	CIENT:	< 20	n	
DEFI INSUF	FICIENT:	21 - 29	n	g/mL g/mL
INSUF PREFFERI INTOXI	FICIENT: ED RANGE: ICATION:	21 - 29 30 - 100 > 100	n n n	g/mL





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

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		onsultant Pathologist	CEO & Consultant	Pathologist
AME	: Mr. JAIDEEP BHALLA			
GE/ GENDER	: 41 YRS/MALE	РАТ	IENT ID	: 1623434
OLLECTED BY	:	REG	. NO./LAB NO.	: 012409240003
EFERRED BY	:	REG	ISTRATION DATE	: 24/Sep/2024 07:39 AM
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LIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 24/Sep/2024 10:20AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD		ONTEN DATE	
LIENT ADDRESS	. 0545/ 1, MCHOLSON KOAD	, AMDALA CAN'I I		
est Name		Value	Unit	Biological Reference interval
by CMIA (CHEMILUMI MMUNOASSAY)	LAMIN: SERUM Nescent microparticle	VITAMIN B12/C 103 ^L	OBALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u>				
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u>	NESCENT MICROPARTICLE SED VITAMIN B12		pg/mL	
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen	103 ^L	pg/mL DECREASED VITAMII	N B12
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	pg/mL DECREASED VITAMII irin, Anti-convulsants stion	N B12
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitam 4.Hepatocellular in	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones	N B12
by CMIA (CHEMILUMI MMUNOASSAY) NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones ysis	N B12
MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estrov 3.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	NESCENT MICROPARTICLE SED VITAMIN B12 hin C gen hin A jury e disorder	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones ysis lyeloma	N B12
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury e disorder amin) is necessary for hematop	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M poolesis and normal neur	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones ysis lyeloma onal function.	N B12 , Colchicine
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal 2.In humans, it is obt	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury e disorder amin) is necessary for hematop rained only from animal proteir	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M poiesis and normal neu- ns and requires intrinsion	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones ysis ysis yeloma onal function. t factor (IF) for absorp	N B12 , Colchicine
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal .In humans, it is obi .The body uses its v excreted.	NESCENT MICROPARTICLE SED VITAMIN B12 hin C gen hin A jury e disorder amin) is necessary for hematop ained only from animal proteir itamin B12 stores very economi	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M poiesis and normal neu- ns and requires intrinsic ically, reabsorbing vitan	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones ysis ysis yeloma onal function. factor (IF) for absorp in B12 from the ileur	N B12 , Colchicine , Colchic
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal 1.In humans, it is obi 3.The body uses its v excreted.	NESCENT MICROPARTICLE SED VITAMIN B12 hin C gen hin A jury e disorder amin) is necessary for hematop ained only from animal proteir itamin B12 stores very economi ency may be due to lack of IF se	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M poiesis and normal neu- ns and requires intrinsic ically, reabsorbing vitan	pg/mL DECREASED VITAMII irin, Anti-convulsants stion ive Harmones ysis ysis yeloma onal function. factor (IF) for absorp in B12 from the ileur	N B12 , Colchicine
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal .In humans, it is obi .The body uses its v xcreted. .Vitamin B12 deficié eal resection, small	NESCENT MICROPARTICLE SED VITAMIN B12 min C gen min A jury e disorder amin) is necessary for hematop cained only from animal proteir itamin B12 stores very economi ency may be due to lack of IF ser intestinal diseases).	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M poiesis and normal neu as and requires intrinsic ically, reabsorbing vitan cretion by gastric muco	pg/mL DECREASED VITAMII irin, Anti-convulsants stion :ive Harmones ysis lyeloma onal function. : factor (IF) for absorp in B12 from the ileur sa (eg, gastrectomy, g	V B12 , Colchicine , Colchic
by CMIA (CHEMILUMI MMUNOASSAY) <u>INTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia I.Vitamin B12 (cobal 2.In humans, it is obt 3.The body uses its v excreted. I.Vitamin B12 deficie leal resection, small 5.Vitamin B12 deficie	NESCENT MICROPARTICLE SED VITAMIN B12 hin C gen hin A jury e disorder amin) is necessary for hemator cained only from animal proteir itamin B12 stores very economi ency may be due to lack of IF ser intestinal diseases). ency frequently causes macrocy	103 ^L 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodial 6. Multiple M poiesis and normal neu- ns and requires intrinsic ically, reabsorbing vitan cretion by gastric muco ytic anemia, glossitis, pe	pg/mL DECREASED VITAMII irin, Anti-convulsants stion :ive Harmones ysis lyeloma onal function. factor (IF) for absorp nin B12 from the ileur sa (eg, gastrectomy, g eripheral neuropathy,	N B12 , Colchicine , Colchic

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.

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	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. JAIDEEP BHALLA			
AGE/ GENDER	: 41 YRS/MALE	PA	ATIENT ID	: 1623434
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 012409240003
REFERRED BY	:	RI	EGISTRATION DATE	: 24/Sep/2024 07:39 AM
BARCODE NO.	: 01517582	CC	DLLECTION DATE	: 24/Sep/2024 07:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 24/Sep/2024 10:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	ATHOLOGY	
	URINE R	OUTINE & MICRO	OSCOPIC EXAMINAT	ΓΙΟΝ
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		PALE YELLOW	I	PALE YELLOW
	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	E E		5.0 - 7.5
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
•	TANCE SPECTROPHOTOMETRY			
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANGE SPECI KUPHUI UMEI KY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID		NEGATIVE (-v	ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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

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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. JAIDEEP BHALLA			
AGE/ GENDER	: 41 YRS/MALE	PATIENT	ID	: 1623434
COLLECTED BY	:	REG. NO./	/LAB NO.	: 012409240003
REFERRED BY : BARCODE NO. : 01517582		REGISTRATION DATE COLLECTION DATE		: 24/Sep/2024 07:39 AM : 24/Sep/2024 07:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
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 C PUS CELLS				
RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3

CASTS 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)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT