



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant			(Pathology)
NAME : N	Ir. PARVESH			
AGE/ GENDER : 5	5 YRS/MALE		PATIENT ID	: 1613829
COLLECTED BY :			REG. NO./LAB NO.	: 012409150006
REFERRED BY :			REGISTRATION DATE	: 15/Sep/2024 08:04 AM
	1516982		COLLECTION DATE	: 15/Sep/2024 08:46AM
	OS DIAGNOSTIC LAB		REPORTING DATE	: 15/Sep/2024 09:09AM
CLIENT ADDRESS : 6	349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST		LLNESS PANEL: 1.5	
			DOD COUNT (CBC)	
RED BLOOD CELLS (RBCS				
HAEMOGLOBIN (HB) by CALORIMETRIC		15.5	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) C	OUNT	5.28 ^H	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLUME (P		47.7	%	40.0 - 54.0
by CALCULATED BY AUTO MEAN CORPUSCULAR VC	MATED HEMATOLOGY ANALYZER DLUME (MCV)	90.4	fL	80.0 - 100.0
by CALCULATED BY AUTON MEAN CORPUSCULAR HA		29.3	pg	27.0 - 34.0
by CALCULATED BY AUTO	MATED HEMATOLOGY ANALYZER		pg	
	MOGLOBIN CONC. (MCHC) MATED HEMATOLOGY ANALYZER	32.4	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION	WIDTH (RDW-CV)	13.4	%	11.00 - 16.00
by CALCULATED BY AUTOR	mated hematology analyzer WIDTH (RDW-SD)	45.4	fL	35.0 - 56.0
by CALCULATED BY AUTO MENTZERS INDEX	MATED HEMATOLOGY ANALYZER	17.12	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED		17.12	KATIU	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		22.9	RATIO	BETA THALASSEMIA TRAIT:<= 65.
by CALCULATED WHITE BLOOD CELLS (W	RCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE COUN		9680	/cmm	4000 - 11000
by FLOW CYTOMETRY BY S	SF CUBE & MICROSCOPY		, smith	
NUCLEATED RED BLOOD by AUTOMATED 6 PART HE		NIL		0.00 - 20.00
NUCLEATED RED BLOOD	CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY AUTO	MATED HEMATOLOGY ANALYZER TE COUNT (DLC)			
NEUTROPHILS		65	%	50 - 70
by FLOW CYTOMETRY BY			,,,	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra

MD (Pathology & Microbiology)

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

Chairman & Consultant Pathologist NAME : Mr. PARVESH **AGE/ GENDER** : 55 YRS/MALE **PATIENT ID** :1613829 **COLLECTED BY** :012409150006 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 15/Sep/2024 08:04 AM **BARCODE NO. COLLECTION DATE** :15/Sep/2024 08:46AM :01516982 CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :15/Sep/2024 09:09AM **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 8H % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** 6292 ABSOLUTE NEUTROPHIL COUNT /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2130 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 774^H 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 484 80 - 880 /cmm 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. 292000 /cmm 150000 - 450000 PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.28 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 6.50 - 12.0 10 fL by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 63000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 21.5 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.8 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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	Dr. Vinay Ch e MD (Pathology & Chairman & Cons		Dr. Yugar MD CEO & Consultant	(Pathology)	
NAME	: Mr. PARVESH				
AGE/ GENDER	: 55 YRS/MALE	PATIE	NT ID	: 1613829	
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BARCODE NO.	:01516982	COLLE	CTION DATE	: 15/Sep/2024 08:46AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOI	RTING DATE	: 15/Sep/2024 12:45PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Referen	ice interval
	GLY	COSYLATED HAEMOO	GLOBIN (HBA1C)		
GLYCOSYLATED HAEN WHOLE BLOOD	NOGLOBIN (HbA1c):	6.3	%	4.0 - 6.4	
ESTIMATED AVERAGE		134.11	mg/dL	60.00 - 140.00	
	AS PER AMERICAN	DIABETES ASSOCIATION (ADA):		
	REFERENCE GROUP		ATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	/	<5.7		
	t Risk (Prediabetes)		5.7 - 6.4		
Di	iagnosing Diabetes		>= 6.5 Age > 19 Years		
		Goals of Ther	ару:	< 7.0	
Therapeutic goals for glycemic control		Actions Sugge	·hata	>8.0	

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 HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

Goal of therapy:

<7.5

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

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

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

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



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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mr. PARVESH			
AGE/ GENDER	: 55 YRS/MALE	P	PATIENT ID	: 1613829
COLLECTED BY	:	F	REG. NO./LAB NO.	: 012409150006
REFERRED BY	:	F	REGISTRATION DATE	: 15/Sep/2024 08:04 AM
BARCODE NO.	: 01516982		COLLECTION DATE	: 15/Sep/2024 08:46AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 15/Sep/2024 09:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	EDVTUE		IENTATION RATE (ESR	n
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifi immune disease, but of 2. An ESR can be affect as C-reactive protein 3. This test may also be systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav 5. Drugs such as dextr	MENTATION RATE (ESR) GREN AUTOMATED METHOD c test because an elevated result does not tell the health practition cted by other conditions besides in the used to monitor disease activity matosus V ESR n with conditions that inhibit the r ficantly high white blood cell coul e cell anaemia) also lower the ESF e protein (C-RP) are both markers of s not change as rapidly as does CR by as many other factors as is ESR, ed, it is typically a result of two typ e a higher ESR. and menstruation	10 often indicates there exactly where oflammation. For y and response to normal sedimenta int (leucocytosis) R. of inflammation. P. either at the s making it a betta bes of proteins, g and pregnancy c	mm/1st hr ne presence of inflammatio the inflammation is in the this reason, the ESR is typ o therapy in both of the ab ation of red blood cells, su , and some protein abnor tart of inflammation or as er marker of inflammation. lobulins or fibrinogen. an cause temporary elevat	0 - 20 on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such pove diseases as well as some others, such as ch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.
		0		





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	Dr. Vinay Ch MD (Pathology & Chairman & Con:		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. PARVESH			
AGE/ GENDER	: 55 YRS/MALE	PATI	ENT ID	: 1613829
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012409150006
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BARCODE NO.	: 01516982	COLL	ECTION DATE	: 15/Sep/2024 08:46AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name	CUN	Value		Biological Reference interval
	CLIN	GLUCOSE FAST		
GLUCOSE FASTING (by glucose oxidas	F): PLASMA se - peroxidase (god-pod)	109.13 ^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 3. A fasting plasma g	on of 75 gms of glucose) is recom	considered normal. ng/dl is considered as gl nmended for all such pa s highly suggestive of di	tients. abetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for all atory for diabetic state.





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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		(Pathology)
NAME: Mr. PARVEAGE/ GENDER: 55 YRS/MAICOLLECTED BY:REFERRED BY:BARCODE NO.: 01516982CLIENT CODE.: KOS DIAGNCLIENT ADDRESS: 6349/1, NIC	LE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1613829 : 012409150006 : 15/Sep/2024 08:04 AM : 15/Sep/2024 08:46AM : 15/Sep/2024 10:40AM
Test Name	Value	Unit	Biological Reference interval
	LIPID PRO	FILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	222.99 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (114.52 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): SERU by SELECTIVE INHIBITION	M 46.04	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOME	154.05 ^H	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	176.95 ^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: SERUM by calculated, spectrophotome	22.9	mg/dL	0.00 - 45.00
OTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOME	560.5	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUN by CALCULATED, SPECTROPHOTOME	1 4.84 ^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, spectrophotome	3.35 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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		Chopra y & Microbiology) consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. PARVESH			
AGE/ GENDER	: 55 YRS/MALE	PATI	ENT ID	: 1613829
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012409150006
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.49 ^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.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. PARVESH AGE/ GENDER : 55 YRS/MALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** :01516982 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

:1613829 :012409150006 :15/Sep/2024 08:04 AM :15/Sep/2024 08:46AM

:15/Sep/2024 10:40AM

Test Name	Value	Unit	Biological Reference interval
LIV	ER FUNCTION TEST	(COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.76	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.57	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	55.4 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	40.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.36	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	94.15	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	134.26 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.42	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.62	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	2.8	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.29	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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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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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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Test Name		Value	Unit	Biological Reference interval
	КІ	DNEY FUNCTION TE	EST (COMPLETE)	
UREA: SERUM		19.12	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)	0.00		
CREATININE: SERUN by ENZYMATIC, SPEC		0.98	mg/dL	0.40 - 1.40
BLOOD UREA NITRO)GEN (BUN): SERUM	8.93	mg/dL	7.0 - 25.0
			DATIO	
RATIO: SERUM	OGEN (BUN)/CREATININE	9.11 ^L	RATIO	10.0 - 20.0
by CALCULATED, SP	ECTROPHOTOMETRY			
UREA/CREATININE F		19.51	RATIO	
URIC ACID: SERUM	ECTROPHOTOMETRY	8.89 ^H	mg/dL	3.60 - 7.70
by URICASE - OXIDA	SE PEROXIDASE			
CALCIUM: SERUM by ARSENAZO III, SPE		9.81	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		3.19	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBL	DATE, SPECTROPHOTOMETRY		5	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		146.3	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		3.98	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV				
CHLORIDE: SERUM by ISE (ION SELECTIV		109.73	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	91.1		

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Dr. Vinay Ch MD (Pathology 8 Chairman & Con		M	I M Chopra ID (Pathology) ant Pathologist
IAME	: Mr. PARVES	Н			
GE/ GENDER	: 55 YRS/MAL	Е		PATIENT ID	: 1613829
COLLECTED BY	:			REG. NO./LAB NO.	: 012409150006
EFERRED BY	:			REGISTRATION DATE	: 15/Sep/2024 08:04 AM
ARCODE NO.	:01516982			COLLECTION DATE	: 15/Sep/2024 08:46AM
LIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATE	: 15/Sep/2024 10:40AM
LIENT ADDRESS				REI ONTING DATE	. 13/ Sep/ 2024 10.40AW
LIENI ADDRESS	. 0349/1, NIC	HULSON KUAD,	AMBALA CANTT		
Fest Name			Value	Unit	Biological Reference interval
 Prerenal azotemia DECREASED RATIO (< Acute tubular nection Low protein diet a Severe liver disease Other causes of de Repeated dialysis Inherited hyperan SIADH (syndrome 	superimposed c 10:1) WITH DECR rosis. nd starvation. e. ecreased urea syn (urea rather than	n renal disease. EASED BUN : hthesis. h creatinine diffi		ne) (e.g. obstructive uro	pathy).
 B. Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (i Muscular patients NAPPROPIATE RATIO 	of inappropiate a 10:1) WITH INCRI apy (accelerates of releases muscle of who develop rel	ntidiuretic harm EASED CREATINII conversion of cro creatinine).	ent in blood). none) due to tubul NE:	ar secretion of urea.	

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	





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AGE/ GENDER	: 55 YRS/MALE	PATIENT ID	: 1613829
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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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CLIENT ADDRESS			AMBALA CANTT			
Test Name			Value	Unit	Biological Reference in	terval
			IRON	I PROFILE		
IRON: SERUM	CTROPHOTOMETRY		65.6	μg/dL	59.0 - 158.0	
UNSATURATED IROI SERUM	N BINDING CAPAC	TTY (UIBC)	197.82	μg/dL	150.0 - 336.0	
by FERROZINE, SPEC						
TOTAL IRON BINDIN :SERUM		;)	263.42	μg/dL	230 - 430	
by SPECTROPHOTON %TRANSFERRIN SAT	URATION: SERUM		24.9	%	15.0 - 50.0	
by CALCULATED, SPECTROPHOTOMETERY (FER TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)			187.03 ^L	mg/dL	200.0 - 350.0	
INTERPRETATION:-						
VARIAE SERUM I			RONIC DISEASE	IRON DEFICIENCY ANEMI Reduced	A THALASSEMIA α/β TRAIT Normal	
TOTAL IRON BIND			eased	Increased	Normal	
% TRANSFERRIN			eased	Decreased < 12-15 %	Normal	
		2001				

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

Decreased

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

SERUM FERRITIN:

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

Normal to Increased

% 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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Normal or Increased





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Test Name		Value	Unit	Biological Reference interval
		ENDOCR	INOLOGY	
			NOLOGY	
TRIIODOTHYRONIN	E (T3): SERUM	THYROID FUNCT 1.012		0.35 - 1.93
TRIIODOTHYRONIN by cmia (chemilumi THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOA	THYROID FUNCT 1.012 ASSAY) 6.75	TION TEST: TOTAL	0.35 - 1.93 4.87 - 12.60

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 Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased Subclinical Hyperthyroidism: Normal or High Normal Normal or High Normal Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID 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 Name			Value	Unit	t	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	
	RECO	MMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50			
	2nd Trimester					
	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.



REGIS COLLE REPO AMBALA CANTT Value VITAMIN TAMIN D/25 HYDRO 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	IO./LAB NO. TRATION DATE COTION DATE RTING DATE	′mL
REG. N REGIS COLLI REPO AMBALA CANTT Value VITAMIN TAMIN D/25 HYDRO 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	IO./LAB NO. TRATION DATE CTION DATE TING DATE Unit Unit Unit Unit IS CY VITAMIN D3 ng/mL ng/i ng/i ng/i	: 012409150006 : 15/Sep/2024 08:04 AM : 15/Sep/2024 08:46AM : 15/Sep/2024 10:40AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
REGIS COLLE REPO AMBALA CANTT Value VITAMIN TAMIN D/25 HYDRO 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	TRATION DATE CONTING DATE RTING DATE Unit Unit IS (Y VITAMIN D3 ng/mL ng/i ng/i	: 15/Sep/2024 08:04 AM : 15/Sep/2024 08:46AM : 15/Sep/2024 10:40AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 (mL (mL (mL (mL)
REGIS COLLE REPO AMBALA CANTT Value VITAMIN TAMIN D/25 HYDRO 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	TRATION DATE CONTING DATE RTING DATE Unit Unit IS (Y VITAMIN D3 ng/mL ng/i ng/i	: 15/Sep/2024 08:46AM : 15/Sep/2024 10:40AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
COLLE REPO AMBALA CANTT Value VITAMIN TAMIN D/25 HYDRO 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	CTION DATE RTING DATE Unit Unit IS CY VITAMIN D3 ng/mL ng/i ng/i	: 15/Sep/2024 08:46AM : 15/Sep/2024 10:40AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
AMBALA CANTT Value VITAMIN TAMIN D/25 HYDRO) 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	Unit IS (Y VITAMIN D3 ng/mL 	: 15/Sep/2024 10:40AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 (mL (mL (mL (mL
Value VITAMIN TAMIN D/25 HYDROX 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	IS (Y VITAMIN D3 ng/mL ng/i ng/i ng/i ng/i	Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 (mL (mL (mL
VITAMIN TAMIN D/25 HYDROX 26.628 ^L < 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	IS (Y VITAMIN D3 ng/mL ng/i ng/i ng/i ng/i	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
< 20 21 - 29 30 - 100 > 100	CY VITAMIN D3 ng/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
< 20 21 - 29 30 - 100 > 100	CY VITAMIN D3 ng/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
< 20 21 - 29 30 - 100 > 100 pocalciferol (from plants,	ng/i ng/i ng/i	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
21 - 29 30 - 100 > 100 pocalciferol (from plants,	ng/i	′mL
21 - 29 30 - 100 > 100 pocalciferol (from plants,	ng/i	′mL
30 - 100 > 100 gocalciferol (from plants,	ng/i	/mL
pocalciferol (from plants,	na/r	
e in circulation. of calcium homeostatis. , calcium mobilization, m newly formed osteoid in vity Mild to Moderate deficie tenytoin, phenobarbital a prolonged exposure to ex als must be monitored by	/itamin D and transpo It promotes calcium a ainly regulated by pa bone, resulting in rick ncy) nd carbamazepine, th tremely high doses of periodic assessment o	arathyroid harmone (PTH). Skets in children and osteomalacia in adults nat increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result ir of Vitamin D levels in order to prevent
r r r	of calcium homeostatis. , calcium mobilization, m newly formed osteoid in ity Mild to Moderate deficie enytoin, phenobarbital an prolonged exposure to ex Is must be monitored by <i>is at higher risk of develo</i>	of calcium homeostatis. It promotes calcium , calcium mobilization, mainly regulated by pa newly formed osteoid in bone, resulting in ric

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CLIENT CODE.			UKTING DATE	. 13/Sep/2024 01.04FW
LIENI ADDRESS	: 6349/1, NICHOLSON ROAD, A	AWIDALA CAN I I		
Test Name VITAMIN B12/COBA		Value VITAMIN B12/CO 154 ^L	Unit DBALAMIN pg/mL	Biological Reference interval
VITAMIN B12/COBA by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:-	INESCENT MICROPARTICLE	VITAMIN B12/C	DBALAMIN pg/mL	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREA	INESCENT MICROPARTICLE SED VITAMIN B12	VITAMIN B12/CO 154 ^L	OBALAMIN	190.0 - 890.0
VITAMIN B12/COBA by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:-	INESCENT MICROPARTICLE SED VITAMIN B12 nin C	VITAMIN B12/CO 154 ^L	DBALAMIN pg/mL DECREASED VITAMIN	190.0 - 890.0 IB12
VITAMIN B12/COBA by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	VITAMIN B12/CO 154 ^L 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants	190.0 - 890.0 IB12
VITAMIN B12/COBA by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	VITAMIN B12/CO 154 ^L 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracept	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants stion ve Harmones	190.0 - 890.0 IB12
VITAMIN B12/COBA by CMIA (CHEMILUM IMMUNOASSAY) INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar	INESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A njury	VITAMIN B12/CO 154 ^L 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants stion ve Harmones vsis	190.0 - 890.0 IB12

the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

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





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CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		EPORTING DATE	: 15/Sep/2024 09:43AM
Test Name		Value	Unit	Biological Reference interva
		CLINICAL PA	ATHOLOGY	
	URINE R	OUTINE & MICRO	OSCOPIC EXAMINAT	ION
PHYSICAL EXAMINAT	ION			
2UANTITY RECIEVED		10	ml	
	, TANCE SPECTROPHOTOMETRY	10		
COLOUR		PALE YELLOW	I	PALE YELLOW
-	TANCE SPECTROPHOTOMETRY			
RANSPARANCY		CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
	ANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	/ loibio		
PROTEIN		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
SUGAR		Negative		NEGATIVE (-ve)
)H	TANCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY	0.0		0.0 7.0
BILIRUBIN		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
		Negative		NEGATIVE (-ve)
JROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Norman	EO/GE	0.2 1.0
ETONE BODIES		Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
SCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-v		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY		()	NEOATIVE (-VC)



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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

NAME	: Mr. PARVESH				
AGE/ GENDER	: 55 YRS/MALE	PATIENT	ID	: 1613829	
COLLECTED BY	:	REG. NO./	LAB NO.	: 012409150006	
REFERRED BY	:		ATION DATE	: 15/Sep/2024 08:04 AM : 15/Sep/2024 08:46AM	
BARCODE NO.	: 01516982	COLLECTION DATE			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 15/Sep/2024 09:43AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		0-2 /HPF		ABSENT	
CRYSTALS by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS		NEGATIVE (-ve)		NEGATIVE (-ve)	

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



BACTERIA



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

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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT