

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)		P <b>r. Yugam</b> MD (F Consultant P	Pathology)	
NAME : Mrs.	VAISHALI					
AGE/ GENDER : 32 YE	RS/FEMALE		PATIENT ID		: 1420220	
COLLECTED BY :			REG. NO./LAB	NO	: 01240721002	23
REFERRED BY			REGISTRATIO		: 21/Jul/2024 08	-
<b>BARCODE NO.</b> :0151	3544		COLLECTION I		: 21/Jul/2024 09	
	DIAGNOSTIC LAB		REPORTING D		: 21/Jul/2024 09	
	0/1, NICHOLSON ROAD, AMB	AI A CANTT		AIL	. 21/Jul/ 2024 00	
Test Name		Value		Unit	Biologi	cal Reference interval
	SWAS <sup>-</sup>	THYA WE	ELLNESS PAN	IEL: 1.5		
	COM		OOD COUNT (	(CBC)		
RED BLOOD CELLS (RBCS) CC				(020)		
HAEMOGLOBIN (HB)	JOINT AND INDICES			gm/dL	12.0 - 1	14.0
by CALORIMETRIC		10.8 <sup>L</sup>		gill/uL	12.0 -	10.0
RED BLOOD CELL (RBC) COUI		3.91		Millions/cm	nm 3.50 - 5	5.00
by HYDRO DYNAMIC FOCUSING PACKED CELL VOLUME (PCV)		33.5 <sup>L</sup>		%	37.0 - 5	50.0
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANALYZER			70		
MEAN CORPUSCULAR VOLUN by CALCULATED BY AUTOMAT		85.8		fL	80.0 - 1	100.0
MEAN CORPUSCULAR HAEM		27.5		pg	27.0 - 3	34.0
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANALYZER					
MEAN CORPUSCULAR HEMO	. ,	32.1		g/dL	32.0 - 3	36.0
RED CELL DISTRIBUTION WI		15.4		%	11.00 -	16.00
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANALYZER					
RED CELL DISTRIBUTION WII by CALCULATED BY AUTOMAT		49.3		fL	35.0 - 5	56.0
MENTZERS INDEX	ED HEMATOLOGT ANALIZER	21.94		RATIO	BETA T	HALASSEMIA TRAIT: < 13.0
by CALCULATED						DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		33.64		RATIO		HALASSEMIA TRAIT: < =
by CALCULATED					65.0	DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS	)				IRON L	JEFICIEINCY AINEIVIIA. > 00.0
TOTAL LEUCOCYTE COUNT (1	-	6310		/cmm	4000 -	11000
by FLOW CYTOMETRY BY SF C		0310			4000 -	
NUCLEATED RED BLOOD CEL		NIL			0.00 - 2	20.00
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANALYZER &					
NUCLEATED RED BLOOD CEL	· · · · ·	NIL		%	< 10 %	
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANALYZER &					
DIFFERENTIAL LEUCOCYTE C	<u>OUNT (DLC)</u>					

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

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

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BARCODE NO.	: 01513544	<b>COLLECTION DATE</b>	: 21/Jul/2024 09:00AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Jul/2024 09:28AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	68	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	26	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0-1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4291	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1641	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	63	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	316	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	0 <u>RS.</u>	/cmm	0 - 110
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	189000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.26	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	14 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	101000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	53.4 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.1	%	15.0 - 17.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD			
CLIENT ADDRESS	. 0343/ 1, MCHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
Test Name	G	Value LYCOSYLATED HAEMOGI		Biological Reference interval
				Biological Reference interval
GLYCOSYLATED HAEMO WHOLE BLOOD	DGLOBIN (HbA1c):	LYCOSYLATED HAEMOGI	OBIN (HBA1C)	
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):	LYCOSYLATED HAEMOGI	OBIN (HBA1C) %	
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):	LYCOSYLATED HAEMOGI 4.9	OBIN (HBA1C)	4.0 - 6.4
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE	LYCOSYLATED HAEMOGI 4.9	OBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	LYCOSYLATED HAEMOGI 4.9	OBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAEMO WHOLE BLOOD <i>by HPLC (HIGH PERFORM</i> ESTIMATED AVERAGE F <i>by HPLC (HIGH PERFORM</i> INTERPRETATION:	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	LYCOSYLATED HAEMOGI 4.9 93.93 BETES ASSOCIATION (ADA):	OBIN (HBA1C) %	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: RE	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA	LYCOSYLATED HAEMOGI 4.9 93.93 BETES ASSOCIATION (ADA):	OBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP	LYCOSYLATED HAEMOGI 4.9 93.93 BETES ASSOCIATION (ADA): GLYCOSYLATED HE	OBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP etic Adults >= 18 years	LYCOSYLATED HAEMOGI 4.9 93.93 BETES ASSOCIATION (ADA): GLYCOSYLATED HE	.OBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 .7 – 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	LYCOSYLATED HAEMOGI 4.9 93.93 BETES ASSOCIATION (ADA): GLYCOSYLATED HE	.OBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 .7 – 6.4 >= 6.5 > 19 Years	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEMO WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	LYCOSYLATED HAEMOGI 4.9 93.93 BETES ASSOCIATION (ADA): GLYCOSYLATED HE	.OBIN (HBA1C) % mg/dL MOGLOGIB (HBAIC) ir <5.7 .7 – 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00

#### COMMENTS:

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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

Goal of therapy

Age < 19 Years

<7.5

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled. 3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be 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 ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
Test Name		Value Unit	Biological Reference interval

Name :	Case :	Patient Type	:	Test Date : 21/07/202	4 14:28:49
Age :	Department :		: Whole Blood EDTA	Sample Id : 01513544	
Gender:				Total Area: 10828	
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)	ē
ньао	70	2817	9408	85.1	
HbA1c	36	47	539	4.9	
_a1c	28	11	151	1.4	
HbF	19	111	463	4.2	
Hba1b Hba1a	12	42 48	123	1.1	
HDalla	11	48	144	1.3	
0.03				Choromotography Hba1c	
				Hbalc	
0.025 -			1		
		1			
0.02-		1			
<b>餐 0.015</b> -			1		
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	]	REPORTING DATE	: 21/Jul/2024 09:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERY	THROCYTE SEDIN	IENTATION RATE (ES	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	3	mm/1st h	
(polycythaemia), sigr as sickle cells in sickl <b>NOTE:</b> 1. ESR and C - reactiv 2. Generally, ESR doe 3. <b>CRP is not affected</b> 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	W ESR n with conditions that inhibit i ificantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both mark is not change as rapidly as doe by as many other factors as is ed, it is typically a result of tw ye a higher ESR, and menstrua	count (leucocytosis) e ESR. es CRP, either at the s ESR, making it a bett o types of proteins, g tion and pregnancy of	, and some protein abno start of inflammation or as <b>er marker of inflammatior</b> lobulins or fibrinogen. an cause temporary eleva	ı.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIP		Unit Y/BIOCHEMISTR	
Test Name	CLIP		Y/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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<b>CLIENT CODE.</b> : KOS DIAGNOST	TC LAB <b>REPOR</b>	TING DATE	: 21/Jul/2024 10:57AM
<b>CLIENT ADDRESS</b> : 6349/1, NICHC	LSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	135.16	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZ	95.17 YMATIC)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION	35.59	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	80.54	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, SPECTROPHOTOMETRY	99.57	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, SPECTROPHOTOMETRY	19.03	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	365.49	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.8	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, SPECTROPHOTOMETRY	2.26	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	Λ		

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.67 <sup>L</sup>	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. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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AGE/ GENDER	: 32 YRS/FEMALE	PATIENT ID	: 1420220
<b>COLLECTED BY</b>	:	REG. NO./LAB NO.	: 012407210023
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 21/Jul/2024 08:52 AM
BARCODE NO.	: 01513544	COLLECTION DATE	: 21/Jul/2024 09:00AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Jul/2024 10:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	
Test Name	Value	Unit	<b>Biological Reference interval</b>

LIVI	ER FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.63	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	0.44	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	14.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	14.5	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.01	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	85.77	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	11.62	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.66	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.25	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.41	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.76	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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)	
NAME	: Mrs. VAISHALI				
AGE/ GENDER	: 32 YRS/FEMALE	PAT	IENT ID	: 1420220	
COLLECTED BY	:	REG	NO./LAB NO.	:012407210023	
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Test Name		Value	Unit	Biological R	eference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	

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

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

PROGNOSTIC SIGNIFICANCE:

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



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HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** 

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 21/Jul/2024 10:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Test Name	Value	Unit	Biological Reference interval
к	IDNEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	19.43	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	0.83	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	9.08	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	10.94	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	23.41	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	4.83	mg/dL	2.50 - 6.80
CALCIUM: SERUM by Arsenazo III, spectrophotometry	9.31	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry ELECTROLYTES	2.6	mg/dL	2.30 - 4.70
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	139.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	3.78	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	104.85	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED INTERPETATION:	96		

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI		ONTING DATE	. 21/ Jul/ 2024 10.00	1111
CLIENT ADDRESS	. 0343/ 1, MCHOLSON ROAI	, AMDALA CAN'I I			
Test Name		Value	Unit	Biological	Reference interval
5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. <b>DECREASED RATIO (</b> < 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in	nd starvation. e. creased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har <b>10:1) WITH INCREASED CREATIN</b> py (accelerates conversion of of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio)	sent in blood). rmone) due to tubular s IINE: creatine to creatinine). increase in creatinine v	ecretion of urea.	ogies,resulting in norma	ıl ratio when dehydrat
2. Cephalosporin thei ESTIMATED GLOMFRI	apy (interferes with creatinine JLAR FILTERATION RATE:	e measurement).			
CKD STAGE	DESCRIPTION		nin/1.73m2) AS	SSOCIATED FINDINGS	
G1	Normal kidney fur		90	No proteinuria	
G2	Kidney damage			Presence of Protein,	
00	normal or high (		Alt	oumin or cast in urine	

Moderate decrease in GFR Severe decrease in GFR Kidney failure

Mild decrease in GFR

ghopra

60 - 89

30-59

15-29

<15



G3a

G3b

G4

G5

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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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Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	51.3	μg/dL	37.0 - 145.0
UNSATURATED IRON	N BINDING CAPACITY (UIBC)	316.88	μg/dL	150.0 - 336.0

:SERUM	010.00	M8/ 02		
by FERROZINE, SPECTROPHOTOMETERY				
TOTAL IRON BINDING CAPACITY (TIBC)	368.18	μg/dL	230 - 430	
:SERUM				
by SPECTROPHOTOMETERY				
%TRANSFERRIN SATURATION: SERUM by calculated, spectrophotometery (ferene)	13.93 <sup>L</sup>	%	15.0 - 50.0	
TRANSFERRIN: SERUM	261.41	mg/dL	200.0 - 350.0	
by SPECTROPHOTOMETERY (FERENE)				

by SPECTROPHOTOMETERY (FERENE)

# 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
IDON.			

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

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

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

## % TRANSFERRIN SATURATION:

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





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Test Name		Value	Unit	Biological Reference interval		
		ENDOC	RINOLOGY			
	ТНҮ	ROID FUN	CTION TEST: TOTAL			
TRIIODOTHYRONINE		0.879	ng/mL	0.35 - 1.93		
THYROXINE (T4): SER	ESCENT MICROPARTICLE IMMUNOASSA UM ESCENT MICROPARTICLE IMMUNOASSA	6.65	μgm/dL	4.87 - 12.60		
	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA CASENSITIVE	2.043 Y)	μIU/mL	0.35 - 5.50		

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.

TRIIODOTHYRONINE (T3)		THYROX	(INE (T4)	THYROID STIMULATING 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	:	Biological Reference interva	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECC	DMMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY ( µIU/mL)		
1st Trimester			0.10 – 2.50			
2nd Trimester			0.20 - 3.00			
3rd Trimester			0.30 - 4.10			

### INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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AGE/ GENDER : 3: COLLECTED BY : REFERRED BY : BARCODE NO. : 0 CLIENT CODE. : K	Y VITAMIN D3): SERUM ENCE IMMUNOASSAY) T:	RI RI CC RI D, AMBALA CANTT Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	ATIENT ID G. NO./LAB NO. GISTRATION DATE PLLECTION DATE PORTING DATE Unit MINS ROXY VITAMIN D3 ng/mL	: 1420220 : 012407210023 : 21/Jul/2024 08:52 AM : 21/Jul/2024 09:00AM : 21/Jul/2024 10:57AM 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. : 0 CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name VITAMIN D (25-HYDROXY by CLIA (CHEMILUMINESCI INTERPRETATION: DEFICIENT INSUFFICIENT INSUFFICIENT PREFFERED RA	11513544 COS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAE V Y VITAMIN D3): SERUM EENCE IMMUNOASSAY)	RI RI CC RI D, AMBALA CANTT Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	EG. NO./LAB NO. EGISTRATION DATE DILECTION DATE EPORTING DATE Unit UNIT	: 012407210023 : 21/Jul/2024 08:52 AM : 21/Jul/2024 09:00AM : 21/Jul/2024 10:57AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
REFERRED BY : BARCODE NO. : 0 CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name VITAMIN D (25-HYDROX) by CLIA (CHEMILUMINESCI INTERPRETATION: DEFICIENT INSUFFICIENT INSUFFICIENT PREFFERED RA	XOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAE V V Y VITAMIN D3): SERUM SENCE IMMUNOASSAY)	RI CC RI D, AMBALA CANTT Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	EGISTRATION DATE DELECTION DATE EPORTING DATE Unit UNIT MINS ROXY VITAMIN D3	: 21/Jul/2024 08:52 AM : 21/Jul/2024 09:00AM : 21/Jul/2024 10:57AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
BARCODE NO. : 0 CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name VITAMIN D (25-HYDROX) by CLIA (CHEMILUMINESC) INTERPRETATION: DEFICIENT INSUFFICIENT PREFFERED RA	XOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAE V V Y VITAMIN D3): SERUM SENCE IMMUNOASSAY)	CO RJ D, AMBALA CANTT Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	Unit MINS ROXY VITAMIN D3	: 21/Jul/2024 09:00AM : 21/Jul/2024 10:57AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name VITAMIN D (25-HYDROX) by CLIA (CHEMILUMINESCI INTERPRETATION: DEFICIENT INSUFFICIENT PREFFERED RA	XOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAE V V Y VITAMIN D3): SERUM SENCE IMMUNOASSAY)	RI D, AMBALA CANTT Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	Unit Unit UNS ROXY VITAMIN D3	: 21/Jul/2024 10:57AM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
CLIENT ADDRESS : 63 Test Name VITAMIN D (25-HYDROX) by CLIA (CHEMILUMINESCI INTERPRETATION: DEFICIENT INSUFFICIENT PREFFERED RA	349/1, NICHOLSON ROAE V Y VITAMIN D3): SERUM ENCE IMMUNOASSAY)	D, AMBALA CANTT Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	Unit /IINS ROXY VITAMIN D3	Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
Test Name VITAMIN D (25-HYDROX) by CLIA (CHEMILUMINESCI <u>INTERPRETATION:</u> DEFICIENT INSUFFICIENT PREFFERED RA	V Y VITAMIN D3): SERUM Sence Immunoassay) T:	Value VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	AINS ROXY VITAMIN D3	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
VITAMIN D (25-HYDROX) by clia (chemiluminesci <u>INTERPRETATION:</u> DEFICIENT INSUFFICIEN PREFFERED RA	Y VITAMIN D3): SERUM ENCE IMMUNOASSAY) T:	VITAN ITAMIN D/25 HYD 18.7 <sup>L</sup>	AINS ROXY VITAMIN D3	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINESCI INTERPRETATION: DEFICIENT INSUFFICIEN PREFFERED RA	Y VITAMIN D3): SERUM ENCE IMMUNOASSAY) T:	ITAMIN D/25 HYD 18.7 <sup>L</sup>	ROXY VITAMIN D3	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINESCI INTERPRETATION: DEFICIENT INSUFFICIEN PREFFERED RA	T:		ng/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
DEFICIENT INSUFFICIEN PREFFERED RA				
INSUFFICIEI PREFFERED RA		- 200	20	/ml
PREFFERED RA	NT:	< 20 21 - 29		/mL /mL
		30 - 100 > 100	ng	/mL /mL
conversion of 7- dihydrocl 2.25-OHVitamin D repres tissue and tightly bound b 3.Vitamin D plays a prima phosphate reabsorption, s 4.Severe deficiency may le <b>DECREASED:</b> 1.Lack of sunshine exposu 2.Inadequate intake, mala 3.Depressed Hepatic Vitar 4.Secondarv to advanced 5.Osteoporosis and Secon 6.Enzyme Inducing drugs: <b>INCREASED:</b> 1. Hypervitaminosis D is R severe hypercalcemia and <b>CAUTION</b> : Replacement th hypervitaminosis D	cholecalciferol to Vitamin E sents the main body resev by a transport protein whi ary role in the maintenance skeletal calcium depositio ead to failure to mineralize ure. absorption (celiac disease) min D 25- hydroxylase acti Liver disease odary Hyperparathroidism anti-epileptic drugs like p Rare, and is seen only after the phophatemia. herapy in deficient individu	D3 in the skin upon UI oir and transport form le in circulation. e of calcium homeost. n, calcium mobilizatio e newly formed osteo ) ivity (Mild to Moderate de henytoin, phenobarbi prolonged exposure to uals must be monitore	raviolet exposure. of Vitamin D and transp atis. It promotes calcium n, mainly regulated by p d in bone, resulting in ric ficiency) al and carbamazepine, t o extremely high doses o d by periodic assessment	ecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipo absorption, renal calcium absorption and arathyroid harmone (PTH). ckets in children and osteomalacia in adults hat increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent ency due to excess of melanin pigment which





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Page 17 of 20





				(Pathology)	
NAME	: Mrs. VAISHALI				
AGE/ GENDER	: 32 YRS/FEMALE	PATIE	NT ID	: 1420220	
COLLECTED BY	:	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE		: 012407210023 : 21/Jul/2024 08:52 AM	
REFERRED BY					
SARCODE NO.	: 01513544			: 21/Jul/2024 09:00AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 21/Jul/2024 10:57AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	NESCENT MICROPARTICLE IMMUNO	ASSAY)			
INTERPRETATION:-				I B12	
NTERPRETATION:-	SED VITAMIN B12			IB12	
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	SED VITAMIN B12 nin C gen	1.Pregnancy 2.DRUGS:Aspiri	n, Anti-convulsants,		
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	SED VITAMIN B12 nin C gen nin A	1.Pregnancy 2.DRUGS:Aspiri 3.Ethanol Igesti	n, Anti-convulsants, on		
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	SED VITAMIN B12 nin C gen nin A jury	1.Pregnancy2.DRUGS:Aspiri3.Ethanol Igesti4. Contraceptive	n, Anti-convulsants on Harmones		
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	SED VITAMIN B12 nin C gen nin A jury	1.Pregnancy2.DRUGS:Aspiri3.Ethanol Igesti4. Contraceptive5.Haemodialysi	n, Anti-convulsants on Harmoness		
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	SED VITAMIN B12 nin C gen nin A jury re disorder	I.Pregnancy       2.DRUGS:Aspiring       3.Ethanol Igesting       4. Contraceptive       5.Haemodialysing       6. Multiple Myee	n, Anti-convulsants on Harmones s Ioma		
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted.	SED VITAMIN B12 nin C gen nin A njury ve disorder lamin) is necessary for hemator tained only from animal protein itamin B12 stores very econom	I.Pregnancy       2.DRUGS:Aspiri       3.Ethanol Igesti       4. Contraceptive       5.Haemodialysi       6. Multiple Mye       poiesis and normal neuror       ns and requires intrinsic fa       ically, reabsorbing vitamin	h, Anti-convulsants, on	Colchicine tion. and returning it to the liver; very little is	
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié leal resection, smal 5.Vitamin B12 deficié	SED VITAMIN B12 nin C gen nin A jury ve disorder lamin) is necessary for hemator tained only from animal protein itamin B12 stores very econom ency may be due to lack of IF se l intestinal diseases). ency frequently causes macrocy	1.Pregnancy         2.DRUGS:Aspirit         3.Ethanol Igesti         4. Contraceptive         5.Haemodialysi         6. Multiple Mye         polesis and normal neuror         ns and requires intrinsic fai         ically, reabsorbing vitamin         cretion by gastric mucosa         ytic anemia, glossitis, perip	h, Anti-convulsants, on	Colchicine tion. and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (er weakness, hyperreflexia, ataxia, loss of	
INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficié leal resection, smal 5.Vitamin B12 deficié proprioception, poor	SED VITAMIN B12 nin C gen nin A jury ve disorder lamin) is necessary for hemator tained only from animal protein itamin B12 stores very econom ency may be due to lack of IF se l intestinal diseases). ency frequently causes macrocy r coordination, and affective be	1.Pregnancy         2.DRUGS:Aspirit         3.Ethanol Igesti         4. Contraceptive         5.Haemodialysi         6. Multiple Mye         polesis and normal neuror         ns and requires intrinsic fai         ically, reabsorbing vitamin         cretion by gastric mucosa         ytic anemia, glossitis, perip	h, Anti-convulsants, on	Colchicine tion. and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (e	
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal .In humans, it is ob 3.The body uses its v excreted. .Vitamin B12 deficié leal resection, smal 5.Vitamin B12 deficié leal resection, smal 5.Vitamin B12 deficié proprioception, poor he neurologic defec 5.Serum methylmalo	SED VITAMIN B12 nin C gen nin A jury re disorder lamin) is necessary for hemator tained only from animal protein itamin B12 stores very econom ency may be due to lack of IF se I intestinal diseases). ency frequently causes macrocy coordination, and affective be ts without macrocytic anemia. onic acid and homocysteine leve	1.Pregnancy         1.Pregnancy         2.DRUGS:Aspirit         3.Ethanol Igesti         4. Contraceptive         5.Haemodialysi         6. Multiple Mye         poiesis and normal neuror         ns and requires intrinsic faically, reabsorbing vitamin         cretion by gastric mucosa         ytic anemia, glossitis, periphavioral changes. These missional changes and the set of t	h, Anti-convulsants on	Colchicine tion. and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (e weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have states.	
NTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia .Vitamin B12 (cobal .Vitamin B12 (cobal .In humans, it is ob .The body uses its v excreted. .Vitamin B12 deficie leal resection, smal .Vitamin B12 deficie roprioception, poor he neurologic defec. .Serum methylmalo .Follow-up testing f	SED VITAMIN B12 nin C gen nin A jury re disorder lamin) is necessary for hemator tained only from animal protein tained and homocysteine leve for antibodies to intrinsic factor	1.Pregnancy         1.Pregnancy         2.DRUGS:Aspirit         3.Ethanol Igesti         4. Contraceptive         5.Haemodialysi         6. Multiple Mye         poiesis and normal neuror         ns and requires intrinsic faically, reabsorbing vitamin         cretion by gastric mucosa         ytic anemia, glossitis, periphavioral changes. These meters         els are also elevated in vita         (IF) is recommended to id	h, Anti-convulsants, on Harmones s al function. ctor (IF) for absorp B12 from the ileum (eg, gastrectomy, g heral neuropathy, anifestations may c min B12 deficiency entify this potentia	Colchicine tion. and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (e weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	

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.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	<b>Dr. Vinay Cho</b> MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD EO & Consultant	(Pathology)	
NAME	: Mrs. VAISHALI				
AGE/ GENDER	: 32 YRS/FEMALE	PATIENT	T ID	: 1420220	
COLLECTED BY	•		/LAB NO.	: 012407210023	
	<b>REFERRED BY</b> : <b>BARCODE NO.</b> : 01513544		ATION DATE	: 21/Jul/2024 08:52 AM	
			TON DATE	: 21/Jul/2024 09:00AM	
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE		: 21/Jul/2024 11:05AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATHO	LOGY		
		OUTINE & MICROSCOF		TION	
PHYSICAL EXAMINA			10 2/4 11/11/11		
		10			
	) TANCE SPECTROPHOTOMETRY	10	ml		
	COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			PALE YELLOW	
				CLEAR	
by DIP STICK/REFLEC				1.002 - 1.030	
	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030	
CHEMICAL EXAMINA					
REACTION		ALKALINE			
	TANCE SPECTROPHOTOMETRY				
PROTEIN		Negative		NEGATIVE (-ve)	
-	TANCE SPECTROPHOTOMETRY	Nonotivo			
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
pH		7.5		5.0 - 7.5	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
BILIRUBIN		Negative		NEGATIVE (-ve)	
NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
NTERTE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		negative			
UROBILINOGEN	-		EU/dL	0.2 - 1.0	
-	TANCE SPECTROPHOTOMETRY				
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
BLOOD		Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY				
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY				
MICROSCOPIC EXAN					



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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	: Mrs. VAISHALI			
AGE/ GENDER	: 32 YRS/FEMALE	PATIEN	T ID	: 1420220
COLLECTED BY	:	REG. NO	)./LAB NO.	: 012407210023
<b>REFERRED BY</b>	:	REGIST	RATION DATE	: 21/Jul/2024 08:52 AM
BARCODE NO.	: 01513544	COLLEC	TION DATE	: 21/Jul/2024 09:00AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	<b>FING DATE</b>	: 21/Jul/2024 11:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	5-7	/HPF	0 - 5
EPITHELIAL CELLS		6-8	/HPF	ABSENT

EPITHELIAL CELLS	6-8	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			NEOATIVE (-VC)
	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report





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

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