



	Dr. Vinay Chopr MD (Pathology & Mici Chairman & Consultai	robiology)		(Pathology)
NAME	: Mrs. MANOHRMA			
AGE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1577905
COLLECTED BY	:		REG. NO./LAB NO.	: 012408120008
REFERRED BY	:		REGISTRATION DATE	: 12/Aug/2024 08:15 AM
BARCODE NO.	: 01514914		COLLECTION DATE	: 12/Aug/2024 08:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Aug/2024 08:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	C/V/V C.	τυνλ \λ/	ELLNESS PANEL: 1.5	
			LOOD COUNT (CBC)	
	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		10 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC	,			
RED BLOOD CELL (RI	3C) COUN I FOCUSING, ELECTRICAL IMPEDENCE	4.16	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM		33.6 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	80.7	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER	24.2 ^L	pg	27.0 - 34.0
by CALCULATED BY	AUTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	29.9 ^L	g/dL	32.0 - 36.0
	TION WIDTH (RDW-CV) automated hematology analyzer	16.2 ^H	%	11.00 - 16.00
RED CELL DISTRIBUT	TION WIDTH (RDW-SD)	48.6	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX	AUTOMATED HEMATOLOGY ANALYZER	19.4	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED		17.4	KATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	EX	31.64	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL	<u>S (WBCS)</u>			INON DEFICIENCE ANEMIA. 203.0
TOTAL LEUCOCYTE (7380	/cmm	4000 - 11000
NUCLEATED RED BL	OOD CELLS (nRBCS)	NIL		0.00 - 20.00
by CALCULATED BY A MICROSCOPY	AUTOMATED HEMATOLOGY ANALYZER &			
	OOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %
DIFFERENTIAL LEUC	<u>OCYTE COUNT (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

	Dr. VINAY CNO MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Tugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS			OKING DAIL	. 12/Aug/ 2024 00.52Am
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	VIBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	Y BY SF CUBE & MICROSCOPY	55	%	50 - 70
LYMPHOCYTES		36	%	20 - 40
by FLOW CYTOMETRY EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1-6
	BY SF CUBE & MICROSCOPY		10	
MONOCYTES		5	%	2 - 12
by FLOW CYTOMETRY BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	0-1
ABSOLUTE LEUKOCY	TES (WBC) COUNT			
ABSOLUTE NEUTROP	PHIL COUNT	4059	/cmm	2000 - 7500
	BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHOC	CYTE COUNT Y by sf cube & microscopy	2657	/cmm	800 - 4900
ABSOLUTE EOSINOPI		295	/cmm	40 - 440
	BY SF CUBE & MICROSCOPY	270	,	
ABSOLUTE MONOCY		369	/cmm	80 - 880
ABSOLUTE BASOPHIL	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY	0	/ cmm	0 - 110
PLATELETS AND OTH	IER PLATELET PREDICTIVE MARK	ERS.		
PLATELET COUNT (PL		137000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 - 0.36
	OCUSING, ELECTRICAL IMPEDENCE	0.2.1		
MEAN PLATELET VOL		15 ^H	fL	6.50 - 12.0
PLATELET LARGE CEL	FOCUSING, ELECTRICAL IMPEDENCE L COUNT (P-LCC)	86000	/cmm	30000 - 90000
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CEL		63 ^H	%	11.0 - 45.0
PLATELET DISTRIBUT	FOCUSING, ELECTRICAL IMPEDENCE	16.6	%	15.0 - 17.0
	OCUSING, ELECTRICAL IMPEDENCE	10.0	70	10.0 17.0
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			

Dr. Vinay Chopra





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BARCODE NO.	:01514914	COLLEC	TION DATE	: 12/Aug/2024 08:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 12/Aug/2024 03:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOGLO	DBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	DGLOBIN (HbA1c):	5.3	%	4.0 - 6.4
ESTIMATED AVERAGE F		105.41	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
RE			IOGLOGIB (HBAIC) i	n %
	etic Adults >= 18 years		:5.7	
	Risk (Prediabetes)		- 6.4	
Dia	gnosing Diabetes	>= 6.5		
		ů – V	19 Years	2
		Goals of Therapy:	< 7.0	j

COMMENTS:

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

Actions Suggested:

Goal of therapy:

>8.0

<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

Age < 19 Years

appropriate. 4.High

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

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

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





Therapeutic goals for glycemic control

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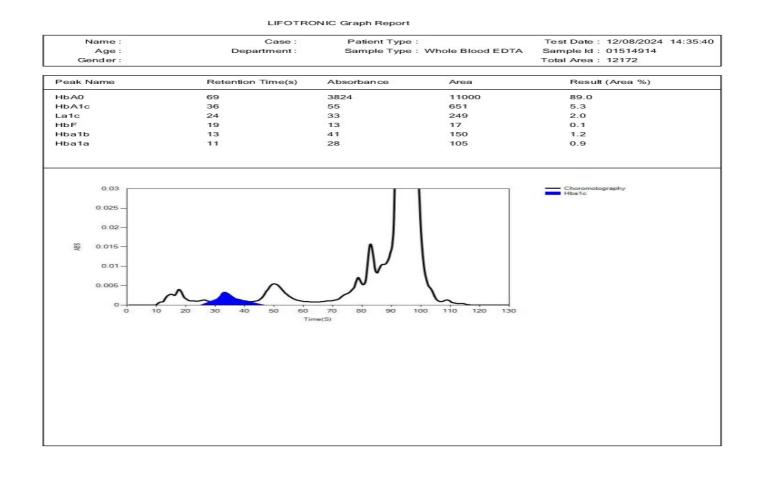
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	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology) MI	m Chopra D (Pathology) ht Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
			/
Test Name		Value Unit	Biological Reference interval







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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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NAME	: Mrs. MANOHRMA			
AGE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1577905
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BARCODE NO.	: 01514914		COLLECTION DATE	: 12/Aug/2024 08:22AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Aug/2024 09:04AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Г	
Fest Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SED	IMENTATION RATE (ES	R)
	MENTATION RATE (ESR)	14	mm/1st ł	nr 0 - 20
polycythaemia), sig is sickle cells in sick NOTE: . ESR and C - reactiv 2. Generally, ESR dod 8. CRP is not affected 9. If the ESR is eleval 5. Women tend to ha 5. Drugs such as dex	en with conditions that inhibit th nificantly high white blood cell c le cell anaemia) also lower the f ve protein (C-RP) are both market es not change as rapidly as does I by as many other factors as is E ted, it is typically a result of two ave a higher ESR, and menstruati	ount (leucocytos ESR. cRP, either at th SR, making it a be types of proteins on and pregnanc	sis), and some protein abno n. e start of inflammation or a e tter marker of inflammation s, globulins or fibrinogen. y can cause temporary eleva	n.
	am	_	Ghopra	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANOHRMA			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 12/Aug/2024 11:06AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	Unit	Biological Reference interval
		Value	/BIOCHEMISTR	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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MBBS, MD (PATHOLOGY)







	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol		(Pathology)
NAME: Mrs. MANOAGE/ GENDER: 43 YRS/FEMCOLLECTED BY:REFERRED BY:BARCODE NO.: 01514914CLIENT CODE.: KOS DIAGNOCLIENT ADDRESS: 6349/1, NIC	ALE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1577905 : 012408120008 : 12/Aug/2024 08:15 AM : 12/Aug/2024 08:22AM : 12/Aug/2024 11:54AM
Test Name	Value	Unit	Biological Reference interval
	LIPID	PROFILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	137.5	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE	198.07 Гел <i>хуматіс</i>)	,H 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 26.98 ^L	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMET	70.91 TRY	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMET	'RY 110.52	2 mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOME	39.61 RY	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMET	473.07	/ mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOME	5.1 ^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	2.63 TRY	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
		Ghopra	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANOHRMA			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		7.34 ^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.

 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 CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. MANOHRMA AGE/ GENDER : 43 YRS/FEMALE **PATIENT ID** :1577905 **COLLECTED BY** :012408120008 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 12/Aug/2024 08:15 AM **BARCODE NO.** :01514914 **COLLECTION DATE** :12/Aug/2024 08:22AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :12/Aug/2024 11:54AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.53 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.00 - 0.40 0.16 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.37 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 16.5U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 13.3 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 1.24 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY U/L ALKALINE PHOSPHATASE: SERUM 87.25 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL 8.3 U/L GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 7.01 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 3.82 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 3.19 gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM RATIO 1.00 - 2.00 1.2

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





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



INTERPRETATION





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incre	eased)

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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Test Name		Value	Unit	Biological Reference interval
	ки	DNEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		19.4	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.82	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		9.07	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
	OGEN (BUN)/CREATININE	11.06	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		23.66	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY	F 11		2.50 (00
URIC ACID: SERUM by URICASE - OXIDAS	SE PEROXIDASE	5.11	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.32	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		2.0	m n /all	2.20 4.70
PHOSPHOROUS: SER	CUIVI DATE, SPECTROPHOTOMETRY	3.9	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		140.8	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUM by ISE (ION SELECTIV		4.4	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	,	105.6	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
	RULAR FILTERATION RATE			
ESTIMATED GLOME (eGFR): SERUM by CALCULATED	RULAR FILTERATION RATE	91		

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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

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

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana Page 11 of 20

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
AME	: Mrs. MANO	HRMA				
GE/ GENDER	: 43 YRS/FEM	MALE	РАТ	IENT ID	: 1577905	
OLLECTED BY				. NO./LAB NO.	: 012408120008	
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EFERRED BY	:			ISTRATION DATE	: 12/Aug/2024 08:1	
SARCODE NO.	:01514914			LECTION DATE	: 12/Aug/2024 08:2	
LIENT CODE.	: KOS DIAGN	OSTIC LAB	REP	ORTING DATE	: 12/Aug/2024 11:5	4AM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMBA	LA CANTT			
Test Name			Value	Unit	Biological	Reference interval
 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thei 	ecreased urea s (urea rather th monemias (ure of inappropiate 10:1) WITH INCI apy (accelerates eleases muscle who develop r o: usis (acetoaceta creased BUN/c rapy (interferes	an creatinine diffuses of ea is virtually absent in t antidiuretic harmone) of REASED CREATININE: s conversion of creatine e creatinine). enal failure. ate causes false increase creatinine ratio). s with creatinine measur	blood). due to tubular se to creatinine). e in creatinine w	cretion of urea.	logies,resulting in norma	al ratio when dehydratio
ESTIMATED GLOMERU	JLAR FILTERATI	ON RATE:		. (4 70 . C)		7
CKD STAGE G1		DESCRIPTION	GFR (mL/m		ASSOCIATED FINDINGS No proteinuria	4
G1 G2		ormal kidney function Kidney damage with	>(Presence of Protein ,	-
GZ		normal or high GFR	3		bumin or cast in urine	
G3a		Aild decrease in GFR	60	-89		1
G3b		derate decrease in GFR	30			1
C 4	C/	vora daaraaaa in CED	15	20		1

G4

G5

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

Severe decrease in GFR

Kidney failure

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

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology) ME	n Chopra D (Pathology) ht Pathologist
NAME	: Mrs. MANOHRMA		
AGE/ GENDER	: 43 YRS/FEMALE	PATIENT ID	: 1577905
COLLECTED BY	:	REG. NO./LAB NO.	: 012408120008
REFERRED BY	:	REGISTRATION DATE	: 12/Aug/2024 08:15 AM
BARCODE NO.	:01514914	COLLECTION DATE	: 12/Aug/2024 08:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 12/Aug/2024 11:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT	
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





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

MBBS, MD (PATHOLOGY)





TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT



Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			Microbiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mrs. MANOH	IRMA				
AGE/ GENDER	: 43 YRS/FEMA	ALE]	PATIENT ID	: 1577905	
COLLECTED BY	:]	REG. NO./LAB NO.	: 012408120008	
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CLIENT CODE.	: KOS DIAGNO	STIC LAB]	REPORTING DATE	: 12/Aug/2024 11:54AM	
CLIENT ADDRESS Test Name	. 0349/ 1, NICI	HOLSON ROAD, A	Value	Unit	Biological Reference interval	
IRON: SERUM			IRON 71.7	PROFILE μg/dL	37.0 - 145.0	
by FERROZINE, SPEC UNSATURATED IRON :SERUM by FERROZINE, SPEC	N BINDING CAPA	CITY (UIBC)	220.02	µg/dL	150.0 - 336.0	
TOTAL IRON BINDIN SERUM		3C)	291.72	μg/dL	230 - 430	
%TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERU		24.58	%	15.0 - 50.0	
TRANSFERRIN: SERL by SPECTROPHOTOM INTERPRETATION:-			207.12	mg/dL	200.0 - 350.0	
VARIAB	BLES	ANEMIA OF CHR	ONIC DISEASE	IRON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT	
050						

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IRON:			

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

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

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

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





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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)		(Pathology)
NAME	: Mrs. MANOHRMA			
AGE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1577905
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Test Name		Value	Unit	Biological Reference interval
		ENDC	CRINOLOGY	
	TH	YROID FUI	NCTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM	0.982	ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOASSA			
THYROXINE (T4): SE	RUM IESCENT MICROPARTICLE IMMUNOASSA	5.62	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	5.172	μlU/mL	0.35 - 5.50
by CMIA (CHEMILUMIN	IESCENT MICROPARTICLE IMMUNOASSA	Y)		
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
	sireadian variation, reaching peak lovels be	twoon 2 4 a m	and at a minimum botwoon 6.10 n	m. The variation is of the order of 50%.Hence time of t
day has influence on the	measured serum TSH concentrations.TSH st	imulates the p	production and secretion of the m	etabolically active hormones, thyroxine (T4)and
	lure at any level of regulation of the hypo roidism) of T4 and/or T3.	thalamic-pitui	tary-thyroid axis will result in eithe	er underproduction (hypothyroidism) or

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.

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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DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST ICROBIOLOGY) MBBS , MD (PATHOLOGY)







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. MANOHRMA		
AGE/ GENDER	: 43 YRS/FEMALE	PATIENT ID	: 1577905
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name			Value	Unit	t	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	
	RECON	IMENDATIONS OF TSH LE	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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NAME :: Mrs. MANOHRMA AGE/ GENDER :: 43 YRS/FEMALE PATIENT ID :: 1577905 COLLECTED BY :: REG. NO./LAB NO. :: 012408120008 REFERENDE BY :: REGISTRATION DATE :: 12/Aug/2024 08:15 AM BARCODE NO. :: 01514914 COLLECTION DATE :: 12/Aug/2024 08:22AM CLIENT CODE :: KOS DIACNOSTIC LAB REPORTING DATE :: 12/Aug/2024 11:54AM CLIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT Isological Reference inter VITAMIN D/25 HYDROXY VITAMIN D3 VITAMIN D/25 HYDROXY VITAMIN D3 SUFFICIENCY: 2.0.0 0.000 by CLA (CHEMILLIAMMESSCENCE MMUNOASSAY) 8.8 ^L ng/mL DEFICIENCY: 2.0.0.0 0.000 INSUFFICIENCY: :: 0.2 : 0.00 INSUFFICIENCY: 2.0.0.0 0.000 INTERPETATION: :: 0.2 :: 0.00 ng/mL NISUFFICIENCY: : 2.0.0.0 0.000 INTERPETATION: :: 0.2 :: 0.2 ing/mL 0.000 0.001 0.001 INTAMIN D (25-HYDROXY VITAMIN D3): SERUM :: 0.0 :: 0.00 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001		Dr. Vinay C l MD (Pathology Chairman & Co			(Pathology)			
COLLECTED BY E. REG. NO./LAB NO. : 012408120008 REFERED BY :: REGISTRATION DATE : 12/Aug/2024 08:15 AM SARCODE NO. ::01514914 COLLECTION DATE : 12/Aug/2024 08:22 AM SARCODE NO. ::01514914 COLLECTION DATE ::12/Aug/2024 08:22 AM SLIENT CODE ::KOS DIAGNOSTIC LAB REPORTING DATE ::12/Aug/2024 08:22 AM SLIENT ADDRESS ::6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference inter VITAMIND 25 HYDROXY VITAMIND D3 VITAMIN D/25 HYDROXY VITAMIN D3 SERUM bic/Lit (CHEMILLUMINESCENCE IMMUNOASSAY) 0 SUFFICIENT: 2.0 ord/mil DEFICIENT: 2.0 OUTAMIN D2: OUTAMIN D2: DEFICIENT: 2.0 OUTAMIN D2: OUTAMIN D2: OUTAMIN D2: DEFICIENT: 2.0 OUTAMIN D2: OUTAMIN D2:	NAME	: Mrs. MANOHRMA						
EFERRED BY :: REGISTRATION DATE :: !:/Aug/2024.08:15.AM KARCODE NO. ::01514914 COLLECTION DATE :: !::/Aug/2024.08:22AM LILENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE :: !::/Aug/2024.08:22AM LILENT ADDRESS :: :: :: !:: :: !:: :: !:: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: <td< th=""><th>GE/ GENDER</th><th>: 43 YRS/FEMALE</th><th></th><th>PATIENT ID</th><th>: 1577905</th><th></th></td<>	GE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1577905			
ARCODE NO. : : 101514914	COLLECTED BY	:		REG. NO./LAB NO.	:0124081200	08		
ELERT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 12/Aug/2024 11:54AM ELERT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference inter VITAMINS VITAMIN D/25 HYDROXY VITAMIN D3 MITAMIN D (25-HYDROXY VITAMIN D3): SERUM 8,8 ^L ng/mL DEFICIENCY: 20.0 - 30. SUFFICIENCY: 20.0 - 30. SUFFICIENT: 2.1 - 29 ng/mL NOTECRCTON: NOTECRCTON: NOTECRCTON: VITAMIN D (25-HYDROXY VITAMIN D3) INTOXICATION: 0.10 ng/mL INTOXICATION: 0.10 ng/mL ng/mL INTOXICATION: 0.10 ng/mL ng/mL INTOXIC	REFERRED BY	:		REGISTRATION DATE	: 12/Aug/2024 (08:15 AM		
CLENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Fest Name Value Unit Biological Reference intervent VITAMIND VITAMIND / 25 HYDROXY VITAMIN D3 VITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLA (CHEMILUMINESCENCE IMMUNOASSAY) 8.8 ^L ng/mL DEFICIENCY: 20.0 0.0 supervent MITAMIN D (25-HYDROXY VITAMIN D3): SERUM by CLA (CHEMILUMINESCENCE IMMUNOASSAY) 8.8 ^L ng/mL DEFICIENCY: 20.0 - 30. SUFFICIENCY: 20.0 - 30. SUFFICIENCY: 20.0 - 100.0 MITERPRETATION: 200 ng/mL DEFICIENCY: 20.0 - 100.0 INSUFFICIENT: 21 - 29 ng/mL DEFICIENCY: 20.0 - 100.0 INTOXICATION: > 100 ng/mL NIXOURCTION: INTOXICATION: > 100 ng/mL ng/mL INTOXICATION: > 100 ng/mL ng/mL ng/mL INTOXICATION: > 100 ng/mL ng/mL ng/mL INTOXICATION: > 100 ng/mL ng/mL ng/mL ng/mL INTOXICATION: > 100 ng/mL ng/mL ng/mL ng/mL ng/mL INTOXICATION: > 100 ng/mL ng/mL ng/mL ng/mL ng/mL	BARCODE NO.	:01514914		COLLECTION DATE	: 12/Aug/2024 (08:22AM		
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VITAMIN D/25 HYDROXY VITAMIN D3 by CLIA (CHEMILUMINESCENCE IMMUNOASSAY) 8.8 ^L ng/mL DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30. SUFFICIENCY: 20.0 - 100. DEFICIENCE: MERPRETATION: MERPRETATION: NTERPRETATION: NITERPRETATION: NITERPRETATION: NITERPRETATION: NITERPRETATION: NITERPRETATION: NITERPRETATION: VIERPRETATION: VIERPRETATION: <td <="" colspan="2" td=""><td>Test Name</td><td></td><td>Value</td><td>Unit</td><td>Biolog</td><td>ical Reference interval</td></td>	<td>Test Name</td> <td></td> <td>Value</td> <td>Unit</td> <td>Biolog</td> <td>ical Reference interval</td>		Test Name		Value	Unit	Biolog	ical Reference interval
by CLIA (CHEMILUMINESCENCE IMMUNOASSAY) INSUFFICIENCY: 20.0 - 30. SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 NTERPRETATION: 21 - 29 ng/mL INSUFFICIENT: 21 - 29 ng/mL INSUFFICIENT: 21 - 29 ng/mL VITENPRETATION: > 100 ng/mL INSUFFICIENT: 21 - 29 ng/mL VITENDRICATION: > 100 ng/mL VITENDRICATION: > 100 ng/mL VITENDRICATION: > 100 ng/mL Sonversion of 7- dihvdrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure. response 2.25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in issue and tighthy bound by a transport protein while in circulation. VItamin D plays a primary role in the maintenance of calcium mobilization, mainly regulated by parathyroid harmone (PTH). Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in a SECREASED: I.ack of sunshine exposure. 2.inadequate intake, malabsorption (celiac disease) 3.becondary Hyperparathroidism (Mild to Moderate deficiency) Secondary to advanced Liver disease 3.becondary Hyperparathroidism (Mild to Moderate deficiency) 3.cecoresponsis and Secondary Hyperparathroidism (Mild to Mod		VI						
DEFICIENT: < 20			8.8 ^L	ng/mL	INSUFI SUFFIC	FICIENCY: 20.0 - 30.0 CIENCY: 30.0 - 100.0		
INSUFFICIENT: 21 - 29 ng/mL PREFFERED RANGE: 30 - 100 ng/mL INTOXICATION: > 100 ng/mL .Vitamin D compounds are derived from dietary eraocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3) onversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure. .25-OHVitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in issue and tightly bound by a transport protein while in circulation. .Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption hosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). .Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in a ECREASED: .Lack of sunshine exposure.						-		
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	conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bo 3.Vitamin D plays a p ohosphate reabsorp! 4.Severe deficiency r DECREASED: 1.Lack of sunshine e 2.Inadeguate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing d INCREASED: 1. Hypervitaminosis I severe hypercalcemic CAUTION: Replacement hypervitaminosis D NOTE:-Dark coloured	vdrocholecalciferol to Vitamin D represents the main body reseve und by a transport protein while orimary role in the maintenance tion, skeletal calcium deposition may lead to failure to mineralize (posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase active need Liver disease becondary Hyperparathroidism (rugs: anti-epileptic drugs like ph D is Rare, and is seen only after a and hyperphophatemia. ent therapy in deficient individua- <i>individuals as compare to whites</i>	3 in the skin upon bir and transport for e in circulation. e of calcium home n, calcium mobiliza e newly formed os vity (Mild to Moderate henytoin, phenoba prolonged exposu als must be monite	a Ultraviolet exposure. orm of Vitamin D and trans ostatis. It promotes calciun ation, mainly regulated by teoid in bone, resulting in e deficiency) arbital and carbamazepine, ire to extremely high doses ored by periodic assessmen	sport form of Vitami m absorption, renal parathyroid harmor rickets in children a that increases Vita of Vitamin D. Whe nt of Vitamin D leve	in D, being stored in adipose calcium absorption and ne (PTH). nd osteomalacia in adults. min D metabolism. n it occurs, it can result in ls in order to prevent		





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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
NAME	: Mrs. MANOHRMA					
AGE/ GENDER	: 43 YRS/FEMALE	PAT	IENT ID	: 1577905		
COLLECTED BY	:	REG	NO./LAB NO.	: 012408120008		
REFERRED BY	•	REG	ISTRATION DATE	: 12/Aug/2024 08:15 AM		
BARCODE NO.	: 01514914		LECTION DATE	: 12/Aug/2024 08:22AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 12/Aug/2024 11:54AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,					
Test Name		Value	Unit	Biological Reference interval		
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM Vescent microparticle immunoa	225.17 ASSAY)	pg/mL	190.0 - 830		
INCREAS	SED VITAMIN B12		DECREASED VITAMIN B12			
1.Ingestion of Vitar		1.Pregnancy				
2.Ingestion of Estro			2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitan			3.Ethanol Igestion			
4.Hepatocellular injury			4. Contraceptive Harmones			
h Muoloprolitorativ			5.Haemodialysis 6. Multiple Myeloma			
5.Myeloproliferativ						
6.Uremia 1.Vitamin B12 (coba	lamin) is necessary for hematop tained only from animal protein	oiesis and normal neur	onal function.			

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 12/Aug/2024 09:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
	URINE R	OUTINE & MICROSCO	PIC EXAMINAT	ION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVE		10	ml	
	J TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY		CLEAR		CLEAR
-	TANCE SPECTROPHOTOMETRY	1.01		1 002 1 020
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	E O		F 0 7 F
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
NITRITE		Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	NUTTIAL	LO/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-VE)		

MICROSCOPIC EXAMINATION

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



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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS		1-3	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-5	/ner	0-5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	ABSENT	
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***





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