



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME	: Mrs. MADHU CHONA			
AGE/ GENDER	: 55 YRS/FEMALE		PATIENT ID	: 1638690
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410090016
REFERRED BY :			REGISTRATION DATE	: 09/Oct/2024 09:45 AM
BARCODE NO.	:01518573		COLLECTION DATE	: 09/Oct/2024 09:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Oct/2024 10:02AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	SALA CANT I		
Test Name		Value	Unit	Biological Reference interval
	SWA	ν. Δνητε	ELLNESS PANEL: G	
			DOD COUNT (CBC)	
<u>RED BLOOD CELLS (R</u>	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.3 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RB	C) COUNT	3.94	Millions/cr	nm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN by CALCULATED BY A	IE (PCV) UTOMATED HEMATOLOGY ANALYZER	32.8 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR		83.1	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	26.1 ^L	pg	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	31.4 ^L	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		-	
	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.7	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD)	48.9	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	21.09	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED		21.07	KATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	33.06	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED WHITE BLOOD CELLS	(WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE CO		7740	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		/ 61111	
NUCLEATED RED BLC	OOD CELLS (NRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
NEUTROPHILS		58	%	50 - 70
	BY SF CUBE & MICROSCOPY	50	/0	30-70

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

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Page 1 of 16





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		33	%	20 - 40
by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY	4	%	1-6
	RY BY SF CUBE & MICROSCOPY	4	70	1-0
MONOCYTES		5	%	2 - 12
-	RY BY SF CUBE & MICROSCOPY	0	0/	0.1
BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
-	YTES (WBC) COUNT			
ABSOLUTE NEUTRO		4489	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY	107	/ Grinn	2000 7300
ABSOLUTE LYMPHC	OCYTE COUNT	2554	/cmm	800 - 4900
	RY BY SF CUBE & MICROSCOPY			
	PHIL COUNT RY BY SF CUBE & MICROSCOPY	310	/cmm	40 - 440
ABSOLUTE MONOC		387	/cmm	80 - 880
by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPH		0	/cmm	0 - 110
-	RY BY SF CUBE & MICROSCOPY THER PLATELET PREDICTIVE MARKE	DS		
PLATELET COUNT (F		141000 ^L	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE	141000-	/ cmin	130000 - 430000
PLATELETCRIT (PCT)		0.2	%	0.10 - 0.36
by HYDRO DYNAMIC MEAN PLATELET VC	FOCUSING, ELECTRICAL IMPEDENCE		fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE	14 ^H	п	0.30 - 12.0
PLATELET LARGE CE		74000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CE	LL RATIO (P-LCR)	52.6 ^H	%	11.0 - 45.0
PLATELET DISTRIBU	ITION WIDTH (PDW)	16.8	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD			





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 09/Oct/2024 02:43PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A				
Test Name		Value	Unit	Biological Reference interval	
	GL	YCOSYLATED HAEMOO	GLOBIN (HBA1C)		
GLYCOSYLATED HAEM	OGLOBIN (HbA1c): mance liquid chromatography)	9.9 ^H	%	4.0 - 6.4	
	PLASMA GLUCOSE	237.43 ^H	mg/dL	60.00 - 140.00	
by HPLC (HIGH PERFORI	MANCE LIQUID CHROMATOGRAPHY)	237.43	ilig/ dE	00.00 140.00	
by HPLC (HIGH PERFORI			ing/ dL		
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u>		ETES ASSOCIATION (ADA):			
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE	AS PER AMERICAN DIABE	ETES ASSOCIATION (ADA):	EMOGLOGIB (HBAIC) in		
by HPLC (HIGH PERFORI <u>NTERPRETATION:</u> RE Non diab	AS PER AMERICAN DIABE	ETES ASSOCIATION (ADA): GLYCOSYLATED F	EMOGLOGIB (HBAIC) ii		
by HPLC (HIGH PERFOR NTERPRETATION: RE Non diab At F	AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years	ETES ASSOCIATION (ADA): GLYCOSYLATED F	EMOGLOGIB (HBAIC) in <5.7		
by HPLC (HIGH PERFOR INTERPRETATION: RE Non diab At F	AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED F	EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4		
by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F Diag	AS PER AMERICAN DIABE EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	ETES ASSOCIATION (ADA): GLYCOSYLATED F	EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5	1%	
by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F Diag	AS PER AMERICAN DIABE FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA): GLYCOSYLATED F	EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years	n%	
by HPLC (HIGH PERFORI INTERPRETATION: RE Non diab At F Diag	AS PER AMERICAN DIABE EFERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	ETES ASSOCIATION (ADA): GLYCOSYLATED F Goals of Therapy: Actions Suggested:	EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years < 7.0	n%	

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

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

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

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





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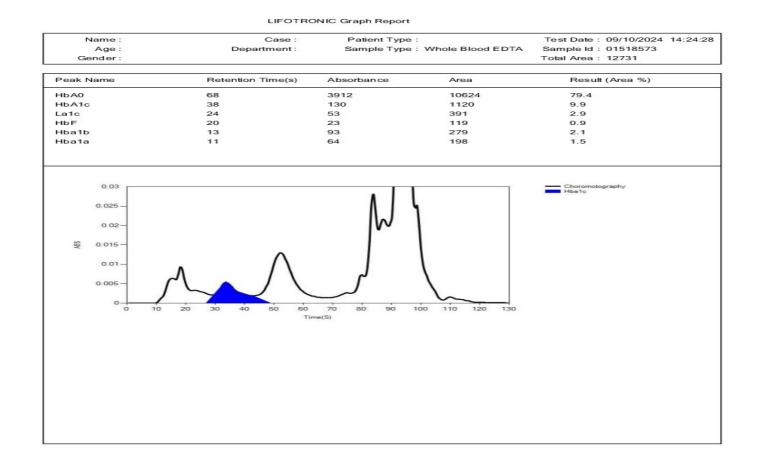
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	SALA CANTT	
			/
Test Name		Value Unit	Biological Reference interval





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BARCODE NO.	: 01518573		COLLECTION DATE	:09/Oct/2024 09:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Oct/2024 10:15AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			MENTATION RATE (ES	2)
	VENTATION RATE (ESR)	13	mm/1st h	
	GATION BY CAPILLARY PHOTOMETRY	15	11111/15111	0 - 20
(polycythaemia), sign as sickle cells in sickly NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to har 6. Drugs such as dext	V ESR h with conditions that inhibit the n ificantly high white blood cell cou e cell anaemia) also lower the ESR 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 ve a higher ESR, and menstruation	nt (leucocytosi ?. pf inflammation P, either at the making it a be bes of proteins, and pregnancy	is), and some protein abnor n. e start of inflammation or as tter marker of inflammation , globulins or fibrinogen. r can cause temporary eleva	rmalities. Šome changes in red cell shape (such it resolves.





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LIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 09/Oct/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTRY/E	BIOCHEMISTRY	(
	CLIN	IICAL CHEMISTRY/E GLUCOSE FASTI		r i
GLUCOSE FASTING (by glucose oxidas INTERPRETATION				NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0





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CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (EN HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	LE	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1638690 : 012410090016 : 09/Oct/2024 09:45 AM : 09/Oct/2024 09:55AM : 09/Oct/2024 11:31AM
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (EN. HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	Valu	e Unit	Biological Reference interval
by CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (EN. HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	LIPI	D PROFILE : BASIC	
by GLYCEROL PHOSPHATE OXIDASE (EN HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	104		OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
by SELECTIVE INHIBITION LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	271. NZYMATIC)	.29 ^H mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
by CALCULATED, SPECTROPHOTOMETRY NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	34.4	9 mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
by CALCULATED, SPECTROPHOTOMETRY VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	у 15.5	.8 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
by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM	у 69.8	4 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
TOTAL LIPIDS: SERUM	54.2	ng/dL	0.00 - 45.00
by GALGULATED, SPECTRUPHUTUMETRY	479	.95 mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.02	2 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	0.45 Y	L RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		7.87 ^H	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the

age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

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



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				. 09/ 001/ 2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	VIDALA UAN I I		
Test Name		Value	Unit	Biological Reference interval
			ON TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.32	mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.32	iliy/uL	ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT	T (UNCONJUGATED): SERUM	0.17	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	YRIDOXAL PHOSPHATE	45.32 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM	YRIDOXAL PHOSPHATE	50.66 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.89	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		137	U/L	40.0 - 150.0
	L TRANSFERASE (GGT): SERUM	98 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.75	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.98	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.77	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	1	1.44	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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

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	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant	biology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mrs. MADHU CHONA		
AGE/ GENDER	: 55 YRS/FEMALE	PATIENT ID	: 1638690
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012410090016
REFERRED BY	:	REGISTRATION DATE	: 09/Oct/2024 09:45 AM
BARCODE NO.	: 01518573	COLLECTION DATE	:09/Oct/202409:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:09/Oct/2024 11:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	LA CANTT	
Test Name		Value Unit	Biological Reference interval

DECREASED:

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

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

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



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		hopra Dr. Yugam Chopr & Microbiology) MD (Patholog nsultant Pathologist CEO & Consultant Pathologi		(Pathology)
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	: KOS DIAGNOSTIC LAB			
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,		ORTING DATE	: 09/Oct/2024 12:42PM
CLIENT ADDRESS	. 0543/ 1, MCHOLSON ROAD, 1	AMDALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	KI	ONEY FUNCTION T	EST (COMPLETE)	
UREA: SERUM		44.05	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)	44.05	Thy/uL	10.00 - 50.00
CREATININE: SERUN		1.26 ^H	mg/dL	0.40 - 1.20
	DGEN (BUN): SERUM ECTROPHOTOMETRY	20.58	mg/dL	7.0 - 25.0
-	DGEN (BUN)/CREATININE	16.33	RATIO	10.0 - 20.0
RATIO: SERUM		10.00	10110	10.0 20.0
	ECTROPHOTOMETRY			
UREA/CREATININE I		34.96	RATIO	
	ECTROPHOTOMETRY	()		
URIC ACID: SERUM by URICASE - OXIDAS	SE PEROXIDASE	6.8	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.51	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY			0.00 10.00
PHOSPHOROUS: SEF		4.3	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM		140.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.92	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		4.72	THINOI/L	5.50 - 5.00
CHLORIDE: SERUM	- /	105.15	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
ESTIMATED GLOME	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	50.4		
(eGFR): SERUM				
by CALCULATED INTERPRETATION:				
INTERPRETATION:				

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.





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REFERRED BY	:	REG	ISTRATION DATE	:09/0ct/2024 09:45	5 AM
BARCODE NO.	: 01518573	COL	LECTION DATE	:09/Oct/2024 09:55	5AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	DRTING DATE	:09/0ct/2024 12:42	2PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
To at Name		Value	11	Dielegiaal	Defense internel
Test Name		Value	Unit	Biological	Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffu monemias (urea is virtually abse of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ (py (accelerates conversion of cre eleases muscle creatinine). who develop renal failure.	nt in blood). one) due to tubular se E:			
should produce an in 2. Cephalosporin the	isis (acetoacetate causes false inc creased BUN/creatinine ratio). rapy (interferes with creatinine m		th certain methodolo	ogies,resulting in norma	I ratio when dehydration
ESTIMATED GLOMERI CKD STAGE	JLAR FILTERATION RATE: DESCRIPTION	GFR (mL/mi	n/1 73m2) AS	SOCIATED FINDINGS	1
G1	Normal kidney funct			No proteinuria	1
G2	Kidney damage wit	h >9	0 Pi	resence of Protein,	1
	normal or high GF	R		umin or cast in urine	
G3a	Mild decrease in G				4
G3b	Moderate decrease in	GFR 30-			4

G4

G5

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Severe decrease in GFR

Kidney failure

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

15-29

<15









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			/
Test Name	Value	Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
THYROID STIMULAT	ING HORMONE (TSH): SERUM	3.274		0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM iescent microparticle immunoa rasensitive	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU	0.35 - 5.50
THYROID STIMULAT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN Brd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ROID STIMULATIN 3.274 ISSAY)	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ROID STIMULATIN 3.274	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0-5 DAYS 6 Days - 2 Months 3 - 11 Months 1 - 5 Years 6 - 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	ROID STIMULATIN 3.274 ISSAY)	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.10 - 3.00	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ROID STIMULATIN 3.274 ISSAY)	OLOGY G HORMONE (TSH) μIU/mL REFFERENCE RANGE (μIU 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	0.35 - 5.50

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

INCREASED LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, Iodine containing agents and dopamine antagonist.

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

DECREASED 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.



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Test News		Mahar	1114	Distantial Defenses internal
Test Name		Value	Unit	Biological Reference interval

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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			KIING DATE	. 09/000/2024 11.51AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CAN I I			
Test Name		Value	Unit	Biological Reference interval	
VITAMIN B12/COBA	ALAMIN: SERUM	VITAMIN VITAMIN B12/CO 1161 ^H		190.0 - 890.0	
IMMUNOAŠSAY)	NESCENT MICROPARTICLE		13		
INTERPRETATION:- INCREASED VITAMIN B12			DECREASED VITAMIN	I B12	
1.Ingestion of Vitan		1.Pregnancy			
			RUGS:Aspirin, Anti-convulsants, Colchicine		
3.Ingestion of Vitan		3.Ethanol Igestion			
4.Hepatocellular in		4. Contraceptive Harmones			
5.Myeloproliferativ	ve disorder	5.Haemodialysis			
6.Uremia			6. Multiple Myeloma		
1.Vitamin B12 (cobal	lamin) is necessary for hemator	poiesis and normal neuro	hal function.	tion	
2.111 numans, It is ob	tained only from animal protein	is and requires intrinsic fairs and requires intrinsic fairs	B12 from the ilour	tion. and returning it to the liver; very little is	
excreted.		icany, reausorbing vitanin		rand returning it to the liver, very little is	
	ency may be due to lack of IF se	cretion by gastric mucosa	(eq, gastrectomy, ga	astric atrophy) or intestinal malabsorption (ec	

4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg, ileal resection, small intestinal diseases).

5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have 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.

*** End Of Report ***





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