

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopr</b> MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. CHARU JAGGI : 47 YRS/FEMALE : : : 01516515 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	GALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1605814 <b>: 012409070062</b> : 07/Sep/2024 07:30 PM : 07/Sep/2024 07:39PM : 07/Sep/2024 07:47PM
Test Name		Value	Unit	Biological Reference interval
		HAFM	IATOLOGY	
	CON		OOD COUNT (CBC)	
RED BLOOD CELLS (R	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.9	gm/dL	12.0 - 16.0
<i>by CALORIMETRIC</i> RED BLOOD CELL (RE	BC) COUNT	4.99	Millions/o	mm 3.50 - 5.00
by HYDRO DYNAMIC F PACKED CELL VOLUN	OCUSING, ELECTRICAL IMPEDENCE ME (PCV)	41.9	%	37.0 - 50.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER	83.8		
	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	25.7 <sup>L</sup>	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	30.7 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.8	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD)	49.6	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX by CALCULATED	UTOMATED HEMATOLOGY ANALYZER	16.79	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	Х	26.38	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) Y BY SF CUBE & MICROSCOPY	7690	/cmm	4000 - 11000
NUCLEATED RED BLC	DOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED BLC	RT HEMATOLOGY ANALYZER DOD CELLS (NRBCS) % IUTOMATED HEMATOLOGY ANALYZER DCYTE COUNT (DLC)	NIL	%	< 10 %
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	53	%	50 - 70



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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. CHARU JAGGI AGE/ GENDER : 47 YRS/FEMALE **PATIENT ID** :1605814 **COLLECTED BY** :012409070062 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Sep/202407:30 PM **BARCODE NO.** :01516515 **COLLECTION DATE** :07/Sep/2024 07:39PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Sep/2024 07:47PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 36 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4076 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2768 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 384 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 80 - 880 461 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 408000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.45<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 11 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 140000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 34.2 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.9 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 07/Sep/2024 07:42PM
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM		NINU DAIL	. 07/3Cp/ 2024 01.421 M
CLIENT ADDRESS	. 0343/ 1, MCHOLSON KOAD, AN			
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAE		5.6	GLOBIN (HBA1C) %	4.0 - 6.4
	RMANCE LIQUID CHROMATOGRAPHY)			
ESTIMATED AVERAGI by HPLC (HIGH PERFO. INTERPRETATION:	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.00
		ABETES ASSOCIATION		
	REFERENCE GROUP		LATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
These is a	in mode for all constants	Goals of The		< 7.0
Therapeutic goals for glycemic control		Actions Sugge		>8.0
			Age < 19 Years	7.5
		Goal of ther	apy:	<7.5

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

## COMMENTS:

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

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

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

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

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



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Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMENTA	FION RATE (ESR	2)
by MODIFIED WESTE	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	30 <sup>H</sup>	mm/1st h	
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth <b>CONDITION WITH LO</b> A low ESR can be see (polycythaemia), sigi	does not tell the health practitic acted by other conditions besides be used to monitor disease activ ematosus <b>W ESR</b> In with conditions that inhibit the	oner exactly where the infl inflammation. For this rea ity and response to therap e normal sedimentation of bunt (leucocytosis), and so	ammation is in the son, the ESR is typ y in both of the ab red blood cells, su	on associated with infection, cancer and auto- body or what is causing it. vically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count malities. Some changes in red cell shape (such

### NOTE:

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(A Unit of KOS Healthcare)

 ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 **CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.** If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while exprise contrace and quiping may decrease it. aspirin, cortisone, and quinine may decrease it





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Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMIS	TRY/BIOCHEMISTR	Y
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING (I by glucose oxidas	F): PLASMA E - PEROXIDASE (GOD-POD)	97.38	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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Test Name		Value	Unit	Biological Reference interval
CHOLESTEROL TOTAL	SERUM	LIPID PROFILE	: <b>BASIC</b> mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXI		107.04	ing/ul	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SERU	JM HATE OXIDASE (ENZYMATIC)	129.77	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E		37.22	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SI by CALCULATED, SPEC		94.67	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 CHOLESTER by CALCULATED, SPEC		120.62	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: by CALCULATED, SPEC		25.95	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPEC		445.45	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC		4.24	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: SERU by CALCULATED, SPEC		2.54	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
		Λ		

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TRIGLYCERIDES/HDI	L RATIO: SERUM	3.49	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

### **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 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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LIV	<b>VER FUNCTION TES</b>	T (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	1.08	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.22	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.86	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	23.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	32.3	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.74	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	129.31	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	34.13	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.26	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.39	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.87	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.53	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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**Biological Reference interval** 





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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightl	y Increased)

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 interva
	кі	DNEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		22.44	mg/dL	10.00 - 50.00
•	ATE DEHYDROGENASE (GLDH)	0.07	ne a fell	0.40, 1.20
CREATININE: SERUN by ENZYMATIC, SPEC		0.87	mg/dL	0.40 - 1.20
	ogen (bun): serum	10.49	mg/dL	7.0 - 25.0
by CALCULATED, SPE	<i>ECTROPHOTOMETRY</i> DGEN (BUN)/CREATININE	12.06	RATIO	10.0 - 20.0
RATIO: SERUM		12.00	in the	10.0 20.0
by CALCULATED, SPE		25.70	DATIO	
UREA/CREATININE F by CALCULATED, SPE		25.79	RATIO	
URIC ACID: SERUM		6.52	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.93	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	7.73	Thy/uL	8.50 - 10.60
PHOSPHOROUS: SEF		3.15	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: serum		139.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN by ISE (ION SELECTIV		4.2	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	LLLUIRUDE)	104.63	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	,			
	RULAR FILTERATION RATE			
ESTIMATED GLOME (eGFR): SERUM by CALCULATED	RULAR FILTERATION RATE	82.6		

### by CALCULATED 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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	<b>Dr. Vinay Chop</b> MD (Pathology & M Chairman & Consult	icrobiology)	u <b>gam Chopra</b> MD (Pathology) ultant Pathologist	
NAME	: Mrs. CHARU JAGGI			
AGE/ GENDER	: 47 YRS/FEMALE	PATIENT ID	: 1605814	
COLLECTED BY		REG. NO./LAB NO.	: 012409070062	
REFERRED BY	:	REGISTRATION DA	· · · · · · · · · · · · · · · · · · ·	
BARCODE NO.	: 01516515	COLLECTION DATE	: 07/Sep/2024 07:39PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	:07/Sep/202408:10PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value Unit	Biological Reference interv	al
5. Repeated dialysis (	nd starvation.			
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 2. Cephalosporin ther <b>ESTIMATED GLOMERU</b> <b>CKD STAGE</b> G1	sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney function	e) due to tubular secretion of urea. ine to creatinine). ase in creatinine with certain meth surement). GFR ( mL/min/1.73m2 )	odologies,resulting in normal ratio when dehy ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	<i>y</i> drat
8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE	0:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION	e) due to tubular secretion of urea. ine to creatinine). ase in creatinine with certain meth surement). GFR (mL/min/1.73m2) n >90	ASSOCIATED FINDINGS	ydrat
8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1	10:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	e) due to tubular secretion of urea. ine to creatinine). ase in creatinine with certain meth surement). GFR (mL/min/1.73m2) n >90	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	ydrat
8. Pregnancy. <b>DECREASED RATIO (&lt;</b> 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <u>ESTIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u>	IO:1) WITH INCREASED CREATININE: py (accelerates conversion of creati eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incre creased BUN/creatinine ratio). apy (interferes with creatinine mea JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	e) due to tubular secretion of urea. ine to creatinine). ase in creatinine with certain meth surement). GFR (mL/min/1.73m2) n >90 60 -89 FR 30-59	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	<i>y</i> drat

G5

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

Kidney failure

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	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology) ME	n <b>Chopra</b> D (Pathology) ht Pathologist
NAME	: Mrs. CHARU JAGGI		
AGE/ GENDER	: 47 YRS/FEMALE	PATIENT ID	: 1605814
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BARCODE NO.	: 01516515	COLLECTION DATE	: 07/Sep/2024 07:39PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 07/Sep/2024 08:10PM
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



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NAME	: Mrs. CHARU JA	GGI			
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BARCODE NO.	:01516515		<b>COLLECTION DATE</b>		:07/Sep/202407:39PM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB		<b>REPORTING DATE</b>	:07/Sep/202408:10PM
CLIENT ADDRESS	: 6349/1, NICHO	DLSON ROAD, A	MBALA CANTT		
Test Name			Value	Unit	Biological Reference interv
			IRON	PROFILE	
IRON: SERUM			70.6	μg/dL	37.0 - 145.0
UNSATURATED IRON SERUM	N BINDING CAPAC	ITY (UIBC)	308.02	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDIN :SERUM	IG CAPACITY (TIBC	)	378.62	μg/dL	230 - 430
by SPECTROPHOTOM %TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERUM		18.65	%	15.0 - 50.0
TRANSFERRIN: SERU	JM		268.82	mg/dL	200.0 - 350.0
<u>INTERPRETATION:-</u> VARIAE	BLES	ANEMIA OF CHR	ONIC DISEASE	IRON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT
SERUM	-	Normal to		Reduced	Normal

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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NAME	: Mrs. CHARU JAGGI			
AGE/ GENDER	: 47 YRS/FEMALE	1	PATIENT ID	: 1605814
COLLECTED BY	:	]	REG. NO./LAB NO.	: 012409070062
REFERRED BY	:	<b>REGISTRATION DATE</b>		: 07/Sep/2024 07:30 PM
BARCODE NO.	: 01516515		COLLECTION DATE	: 07/Sep/2024 07:39PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	1	REPORTING DATE	: 07/Sep/2024 07:47PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCE	RINOLOGY	
	TF	IYROID FUNC	TION TEST: TOTAL	
TRIIODOTHYRONINE	(T3): SERUM	0.912	ng/mL	0.35 - 1.93
	ESCENT MICROPARTICLE IMMUNOASS			1.07 10 (0
THYROXINE (T4): SEF	{UIVI ESCENT MICROPARTICLE IMMUNOASS	8.85 SAY)	µgm/dL	4.87 - 12.60
• • •				0.05 5 50
by CMIA (CHEMILUMIN	NG HORMONE (TSH): SERUM	2.404	μlU/mL	0.35 - 5.50
by сміа (снемі́цимілі THYROID STIMULATI	ESCENT MICROPARTICLE IMMUNOASS		µIU/mL	0.35 - 5.50

trilodothyronine (T3).Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

 CLINICAL CONDITION
 T3
 T4
 TSH

 Primary Hypothyroidism:
 Reduced
 Reduced
 Increased (Significantly)

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

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

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMU	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (μg/dL)	Age	Reference Range (μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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	<b>Dr. Vinay Chopr</b> MD (Pathology & Micr Chairman & Consultar	robiology) N	am Chopra 1D (Pathology) ant Pathologist
NAME	: Mrs. CHARU JAGGI		
AGE/ GENDER	: 47 YRS/FEMALE	PATIENT ID	: 1605814
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	Biological Reference interval
6 - 12 Months 0	74 - 2 40 6 - 12 Months 7	/ 10 - 16 16 6 - 12 Months (	) 70 - 7 00

				•••••		
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	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREG	NANCY ( 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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	: Mrs. CHARU JAGGI	nsultant Pathologist	CEO & Consultant	
NAME AGE/ GENDER	: MFS. CHAKU JAGGI : 47 YRS/FEMALE		PATIENT ID	: 1605814
	. 47 IKS/FEMALE			
COLLECTED BY	•		REG. NO./LAB NO.	: 012409070062
REFERRED BY	. 01510515		REGISTRATION DATE	: 07/Sep/2024 07:30 PM
BARCODE NO.	: 01516515		COLLECTION DATE	: 07/Sep/2024 07:39PM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD		REPORTING DATE	: 07/Sep/2024 07:47PM
Test Name		Value	Unit	Biological Reference interval
			AMINS	
			DROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM	33.1	ng/mL	DEFICIENCY: < 20.0
by CLIA (CHEMILUMIN	ESCENCE IMMUNUASSAT)			INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
NTERPRETATION:				
	CIENT:	< 20		g/mL
	FICIENT: ED RANGE:	21 - 29 30 - 100		g/mLg/mL
INTOX	ICATION:	> 100	n	g/mL lecalciferol (from animals, Vitamin D3), or by
2.25-OHVitamin D r issue and tightly bo 3.Vitamin D plays a r phosphate reabsorpt	und by a transport protein whil primary role in the maintenance tion, skeletal calcium depositior	bir and transport fo e in circulation. e of calcium homeo n, calcium mobilizat	rm of Vitamin D and trans statis. It promotes calciur tion, mainly regulated by r	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults.





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	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD		UNTING DATE		
Fest Name		Value	Unit	<b>Biological Reference interval</b>	
by CMIA (CHEMILUMI	LAMIN: SERUM nescent microparticle	162 <sup>L</sup>	pg/mL	200 - 940	
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u>	NESCENT MICROPARTICLE	162 <sup>L</sup>			
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS	NESCENT MICROPARTICLE SED VITAMIN B12		pg/mL DECREASED VITAMIN		
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen	1.Pregnancy 2.DRUGS:Asp	DECREASED VITAMIN	N B12	
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A	1.Pregnancy 2.DRUGS:Asp 3.Ethanol Iges	DECREASED VITAMIN	N B12	
by CMIA (CHEMILUMI MMUNOASSAY) <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitam 4.Hepatocellular in	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	1.Pregnancy 2.DRUGS:Asp 3.Ethanol Iges 4. Contracept	DECREASED VITAMIN	N B12	
MMUNOASSAY) INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	NESCENT MICROPARTICLE SED VITAMIN B12 nin C gen nin A jury	1.Pregnancy 2.DRUGS:Asp 3.Ethanol Iges 4. Contracept 5.Haemodials 6. Multiple M	DECREASED VITAMIN irin, Anti-convulsants stion ive Harmones ysis yeloma	N B12	

NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 does not rule out tissue deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 07/Sep/2024 10:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			1
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
		OUTINE & MICROSCO		ION
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR		10	110	
		AMBER YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY	114 71/		
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANGE SI LOTIOI HOTOMETRI	<=5.0		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECIFICITIONETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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NAME	: Mrs. CHARU JAGGI			
AGE/ GENDER	: 47 YRS/FEMALE	PATIENT	ID	: 1605814
COLLECTED BY	:	REG. NO./	'LAB NO.	: 012409070062
REFERRED BY	:	REGISTR	ATION DATE	: 07/Sep/2024 07:30 PM
BARCODE NO.	:01516515	<b>COLLECTION DATE</b>		: 07/Sep/2024 07:39PM : 07/Sep/2024 10:55PM
CLIENT CODE.	<b>IENT CODE.</b> : KOS DIAGNOSTIC LAB		NG DATE	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Nomes				
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	Value NEGATIVE (-ve)	/HPF	Biological Reference interval
RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS				
RED BLOOD CELLS (F by MICROSCOPY ON C PUS CELLS by MICROSCOPY ON C EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3

CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

\*\*\* End Of Report \*\*\*

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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

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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT