



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		Pathology)
NAME	: Mrs. KIMJAL JAIN			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1606046
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409080046
REFERRED BY	:		REGISTRATION DATE	: 08/Sep/2024 11:08 AM
BARCODE NO.	: 01516562		COLLECTION DATE	: 08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Sep/2024 11:21AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.5	
	CON		DOD COUNT (CBC)	
	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	Sof COUNT AND INDICES	13.2	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB	C) COUNT DCUSING, ELECTRICAL IMPEDENCE	4.9	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUM	E (PCV) JTOMATED HEMATOLOGY ANALYZER	42.1	%	37.0 - 50.0
MEAN CORPUSCULAR by CALCULATED BY AU	VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	85.9	fL	80.0 - 100.0
by CALCULATED BY A	R HAEMOGLOBIN (MCH)	26.9 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	31.2 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	15.1	%	11.00 - 16.00
RED CELL DISTRIBUTI	ON WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	48.5	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.53	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE> by calculated		26.43	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			
-	BY SF CUBE & MICROSCOPY	8650	/cmm	4000 - 11000
•	T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLO by CALCULATED BY AL DIFFERENTIAL LEUCO	JTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
NEUTROPHILS	BY SF CUBE & MICROSCOPY	71 ^H	%	50 - 70



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.





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. KIMJAL JAIN AGE/ GENDER : 44 YRS/FEMALE **PATIENT ID** :1606046 **COLLECTED BY** : SURJESH :012409080046 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :08/Sep/2024 11:08 AM : **BARCODE NO.** :01516562 **COLLECTION DATE** :08/Sep/2024 11:11AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :08/Sep/2024 11:21AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 - 40 20 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **EOSINOPHILS** 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 5 MONOCYTES % 2 - 12 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 6142 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 1730 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 346 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 432 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 376000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.37^H 0.10 - 0.36 PLATELETCRIT (PCT) % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 6.50 - 12.0 fl by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 89000 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 23.8 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 16.1 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE



NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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BARCODE NO.	:01516562		LLECTION DATE	: 08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 08/Sep/2024 01:17PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HbA1c):	5.5	10GLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAGI	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	111.15	mg/dL	60.00 - 140.00
INTERPRETATION:		DIABETES ASSOCIATIO		
	AS PER AIVIERICAN REFERENCE GROUP		DSYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	02100	<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
	iagnosing Diabetes		>= 6.5	
	ic goals for glycemic control	Goals of 1 Actions Su		< 7.0 >8.0
			Age < 19 Years	
		Goal of t		<7.5

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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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BARCODE NO.	:01516562	COL	LECTION DATE	:08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 08/Sep/2024 11:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	HROCYTE SEDIMEN	ITATION RATE (ES	R)
by MODIFIED WESTER INTERPRETATION:	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	31 ^H	mm/1st l	
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practition acted by other conditions besides	It often indicates the p oner exactly where the s inflammation. For thi	presence of inflammat inflammation is in the s reason, the ESR is ty	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such
3. This test may also systemic lupus eryth	be used to monitor disease active matosus	vity and response to th	erapy in both of the a	bove diseases as well as some others, such as

CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

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.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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		hopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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BARCODE NO.	: 01516562	COLL	ECTION DATE	:08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	:08/Sep/2024 12:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	BIOCHEMISTR	Y
		GLUCOSE FAS	TING (F)	

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O>		181.83	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	104.39	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		48.36	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
LDL CHOLESTEROL: S		112.59	mg/dL	HIGH HDL: > OR = 60.0 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 CHOLESTE by calculated, spi		133.47 ^H	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		20.88	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERU by CALCULATED, SPE	M	468.05	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	3.76	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: SER by CALCULATED, SPE		2.33	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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.16 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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

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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. KIMJAL JAIN **AGE/ GENDER** : 44 YRS/FEMALE **PATIENT ID** :1606046 **COLLECTED BY** : SURJESH :012409080046 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :08/Sep/2024 11:08 AM : **BARCODE NO.** :01516562 **COLLECTION DATE** :08/Sep/2024 11:11AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :08/Sep/2024 01:47PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 1.17 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.27 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.9 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 25.5 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 36.6 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 0.7 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY U/L ALKALINE PHOSPHATASE: SERUM 94.98 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL U/L GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 23.28 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 6.59 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 3.78 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.81 gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY

A : G RATIO: SERUM

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

1.35





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RATIO



1.00 - 2.00

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

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

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

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
		CALCIUM	VI IONIZED	
CALCIUM IONIZED (i		1.12	mmol/L	1.10 - 1.35

Ionized calcium, which accounts for 50% to 55% of total calcium, is the physiologically active form of calcium.

Low ionized calcium values are often seen in renal disease, critically ill patients, or patients receiving rapid transfusion of citrated whole blood or blood products.

Increased serum ionized calcium concentrations may be seen with primary hyperparathyroidism, ectopic parathyroid hormone-producing tumors, excess intake of vitamin D, or various malignancies.

The test is used for assessing calcium states during liver transplantation surgery, cardiopulmonary bypass, or any procedure requiring rapid transfusion of whole blood in neonates and in critically ill patients and as a second-order test in the evaluation of patients with abnormal calcium values

Serum ionized calcium concentrations 50% below normal result in severely reduced cardiac stroke work. With moderate to severe hypocalcemia, left ventricular function may be profoundly depressed.





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	Dr. Vinay Ch MD (Pathology & Chairman & Cor			
NAME	: Mrs. KIMJAL JAIN			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1606046
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409080046
REFERRED BY	:		REGISTRATION DATE	:08/Sep/2024 11:08 AM
BARCODE NO.	:01516562		COLLECTION DATE	: 08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Sep/2024 01:47PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	кі		ON TEST (COMPLETE)	
JREA: SERUM		14.91	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)		° °	
CREATININE: SERUM		0.92	mg/dL	0.40 - 1.20
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		6.97 ^L	mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY		6.97-	ing/ dL	7.0 - 23.0
	GEN (BUN)/CREATININE	7.58 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
JREA/CREATININE F		16.21	RATIO	
by CALCULATED, SPE		10.21	1.110	
JRIC ACID: SERUM		7.49 ^H	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.75	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.75	TTY/UL	8.50 - 10.60
PHOSPHOROUS: SER	NUM	2.86	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY			
LECTROLYTES				
SODIUM: SERUM		139.8	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		3.84	mmol /l	3.50 - 5.00
by ISE (ION SELECTIV		3.84	mmol/L	3.30 - 3.00
CHLORIDE: SERUM	/	104.85	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	-			
ESTIMATED GLOME	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	78.7		
eGFR): SERUM				
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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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AGE/ GENDER	: 44 YRS/FEMA	ALE	РА	TIENT ID	: 1606046	
COLLECTED BY	: SURJESH			G. NO./LAB NO.	: 012409080046	
	SURJESH					0.014
REFERRED BY	:			GISTRATION DATE	:08/Sep/2024 11:0	
BARCODE NO.	:01516562			LLECTION DATE	:08/Sep/2024 11:1	
CLIENT CODE.	: KOS DIAGNO	STIC LAB	RE	PORTING DATE	:08/Sep/202401:4	7PM
CLIENT ADDRESS	: 6349/1, NICH	HOLSON ROAD, AMBA	ALA CANTT			
Test Name			Value	Unit	Biological	Reference interval
6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<	rosis. nd starvation. e. ecreased urea syr (urea rather than imonemias (urea of inappropiate a 10:1) WITH INCRE	nthesis. n creatinine diffuses c i is virtually absent in intidiuretic harmone) EASED CREATININE:	blood). due to tubular			
2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in	eleases muscle c who develop rer b sis (acetoacetate creased BUN/cre rapy (interferes w	nal failure. e causes false increas eatinine ratio). vith creatinine measu	e in creatinine	with certain methodo	ologies,resulting in norma	al ratio when dehydratic
CKD STAGE		DESCRIPTION	GFR (mL/ı	nin/1.73m2) /	ASSOCIATED FINDINGS	Т
G1	Nori	mal kidney function				
G2				»90	No proteinuria	-
G3a	nc	dney damage with ormal or high GFR Id decrease in GFR		·90	No proteinuria Presence of Protein , Ibumin or cast in urine	-

G3b

G4

G5

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Moderate decrease in GFR

Severe decrease in GFR

Kidney failure

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30-59

15-29

<15









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NAME	: Mrs. KIMJAL JAIN		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA 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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CLIENT ADDRESS		ROAD, AMBALA CANTT		
CLIENT ADDRESS	. 0045/ 1, MCHOLSON	KOAD, ANIDALA CANTT		
Test Name		Value	Unit	Biological Reference interval
IRON: SERUM		IRON 49.6	l PROFILE μg/dL	37.0 - 145.0
by FERROZINE, SPEC	TROPHOTOMETRY	47.0	μg/ uL	37.0 - 143.0
:SERUM	N BINDING CAPACITY (U	BC) 214.66	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BINDIN SERUM		264.26	μg/dL	230 - 430
by SPECTROPHOTON	METERY			
%TRANSFERRIN SAT by CALCULATED, SPE	URATION: SERUM	18.77 ENE)	%	15.0 - 50.0
TRANSFERRIN: SERI		187.62 ^L	mg/dL	200.0 - 350.0
INTERPRETATION:-				
VARIAE SERUM I		A OF CHRONIC DISEASE ormal to Reduced	IRON DEFICIENCY ANEMIA Reduced	THALASSEMIA α/β TRAIT Normal
TOTAL IRON BIND		Decreased	Increased	Normal
% TRANSFERRIN		Decreased	Decreased < 12-15 %	Normal

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

Decreased

anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

SERUM FERRITIN:

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

Normal to Increased

% TRANSFERRIN SATURATION:

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



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Normal or Increased

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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NAME	: Mrs. KIMJAL JAIN			
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COLLECTED BY	: SURJESH	l	REG. NO./LAB NO.	: 012409080046
REFERRED BY	:	l	REGISTRATION DATE	: 08/Sep/2024 11:08 AM
BARCODE NO.	: 01516562	(COLLECTION DATE	:08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 08/Sep/2024 12:46PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCR	RINOLOGY	
	THY	ROID FUNCT	TION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	(T3): SERUM escent microparticle immunoassay	1.025 0	ng/mL	0.35 - 1.93
THYROXINE (T4): SEF by CMIA (CHEMILUMIN	RUM escent microparticle immunoassay	9.14)	μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN	NG HORMONE (TSH): SERUM escent microparticle immunoassay rasensitive	0.954)	μIU/mL	0.35 - 5.50

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

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

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

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		ONINE (T3) THYROXINE (T4) THYROID STIMULATIN		LATING 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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NAME	: Mrs. KIMJAL JAIN		
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Test Name			Value	Unit	t	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
	RECON	MENDATIONS OF TSH LI	EVELS DURING PREG	SNANCY (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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra y & Microbiology) Consultant Pathologis		(Pathology)
NAME	: Mrs. KIMJAL JAIN			
AGE/ GENDER	: 44 YRS/FEMALE		PATIENT ID	: 1606046
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT	,	
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
		VITAMIN D/25 H	YDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	47.714	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20		g/mL
INSUFI	FICIENT:	21 - 29	r	g/mL
INSUFI PREFFERE INTOXI 1.Vitamin D compour	FICIENT: ED RANGE: CATION:	21 - 29 30 - 100 > 100 ergocalciferol (from	plants, Vitamin D2), or cho	





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NAME			CEO & Consultant	(Pathology) Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 00/ 5Cp/ 2024 01.411 M
Test Name		Value	Unit	Biological Reference interval
	SCENT MICROPARTICLE IMMUNOASS			
<u>INTERPRETATION:-</u> INCREASE			DECREASED VITAMIN	IB12
INCREASE	D VITAMIN B12		DECREASED VITAMIN	IB12
	D VITAMIN B12	1.Pregnancy	DECREASED VITAMIN	
INCREASE 1.Ingestion of Vitami 2.Ingestion of Estroge 3.Ingestion of Vitami	D VITAMIN B12 n C en n A	1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	rin, Anti-convulsants, tion	
INCREASE 1.Ingestion of Vitami 2.Ingestion of Estroge 3.Ingestion of Vitami 4.Hepatocellular inju	D VITAMIN B12 n C en n A iry	1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracept	rin, Anti-convulsants tion ve Harmones	
INCREASE 1.Ingestion of Vitami 2.Ingestion of Estroge 3.Ingestion of Vitami	D VITAMIN B12 n C en n A iry	1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	rin, Anti-convulsants tion ve Harmones sis	

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





NAME	: Mrs. KIMJAL JAIN			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		VITAMIN B9/	FOLIC ACID/FOLATE	
	CID/FOLATE: SERUM ESCENCE IMMUNOASSAY)	11.3	ng/mL	DEFICIENT: < 3.37 INTERMEDIATE: 3.37 - 5.38 NORMAL: > 5.38

INTERPRETATION

RESULT IN ng/mL	REMARKS
0.35 – 3.37	DEFICIENT
3.38 - 5.38	INTERMEDIATE
5.39 - 100.00	NORMAL

NOTE:

1. Drugs like Methotrexate & Leucovorin interfere with folate measurement

2. To differentiate vitamin B12 & folate deficiency, measurement of Methyl malonic acid in urine & serum Homocysteine level is suggested 3. Risk of toxicity from folic acid is low as it is a water soluble vitamin regularly excreted in urine

COMMENTS:

1. Folate plays an important role in the synthesis of purine & pyrimidines in the body and is important for the maturation of erythrocytes.

It is widely available from plants and to a lesser extent organ meats, but more than half the folate content of food is lost during cooking.
 Folate deficiency is commonly prevalent in alcoholic liver disease, pregnancy and the elderly. It may result from poor intestinal absorption, nutrition deficiency, excessive demand as in pregnancy or in malignancy and in response to certain drugs like Methotrexate & anticonvulsants.
 Decreased Levels Megaloblastic anemia, Infantile hyperthyroidism, Alcoholism, Malnutrition, Scurvy, Liver disease, B12 deficiency, dietary amino acid excess, adult Celiac disease, Tropical Sprue, Crohn's disease, Hemolytic anemias, Carcinomas, Myelofibrosis, vitamin B6 deficiency, pregnancy, Whipple's disease, extensive intestinal resection and severe exfoliative dermatitis





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BARCODE NO.	:01516562		ECTION DATE	: 08/Sep/2024 11:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		FING DATE	: 08/Sep/2024 02:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
	URINE RO	OUTINE & MICROSCO	PIC EXAMINAT	ΓΙΟΝ
PHYSICAL EXAMINA				
QUANTITY RECIEVE	D	10	ml	
COLOUR	by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
by DIP STICK/REFLEC SPECIFIC GRAVITY	CTANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
	CTANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA	ATION			
REACTION		ACIDIC		
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Trace		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
рН		5.5		5.0 - 7.5
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY			
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC KETONE BODIES	CTANCE SPECTROPHOTOMETRY	Nogativo		
	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	BLOOD			NEGATIVE (-ve)
ASCORBIC ACID	CTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				· · /

MICROSCOPIC EXAMINATION



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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. KIMJAL JAIN						
AGE/ GENDER : 44 YRS/FEMALE		PATIENT ID		: 1606046			
COLLECTED BY	: SURJESH	REG. NO.	/LAB NO.	: 012409080046 : 08/Sep/2024 11:08 AM : 08/Sep/2024 11:11AM			
REFERRED BY	:	REGISTR	ATION DATE				
BARCODE NO.	: 01516562	COLLECT	ION DATE				
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE		: 08/Sep/2024 02:39PM			
CLIENT ADDRESS	CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT						
Test Name		Value	Unit	Biological Reference interval			
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3			
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	20-30	/HPF	0 - 5			
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	5-7	/HPF	ABSENT			
CRYSTALS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)			
CASTS	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)			

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT



BACTERIA



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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT