



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. RITU BANSAL : 50 YRS/FEMALE : : Dr. D.S.GOEL (AMBALA CANTT) : 01524072 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBA	ALA CANTI	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1728131 : 012501190009 : 19/Jan/2025 09:21 AM : 19/Jan/2025 09:25AM : 19/Jan/2025 10:03AM
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS			ELLNESS PANEL: 1. OOD COUNT (CBC)	3
HAEMOGLOBIN (H		12.2	gm/dL	12.0 - 16.0
RED BLOOD CELL (4.53	Millions	/cmm 3.50 - 5.00
PACKED CELL VOL	FOCUSING, ELECTRICAL IMPEDENCE UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	37.1	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	81.8	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	27	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	33	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	15	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD)	46	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		18.06	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by calculated WHITE BLOOD CE		27.15	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
FOTAL LEUCOCYTI		7080	/cmm	4000 - 11000
NUCLEATED RED H	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED H	BLOOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %





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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. RITU BANSAL AGE/ GENDER : 50 YRS/FEMALE **PATIENT ID** :1728131 **COLLECTED BY** :012501190009 REG. NO./LAB NO. **REFERRED BY** : Dr. D.S.GOEL (AMBALA CANTT) **REGISTRATION DATE** : 19/Jan/2025 09:21 AM **BARCODE NO.** :01524072 **COLLECTION DATE** : 19/Jan/2025 09:25AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 19/Jan/2025 10:03AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 51% 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 41^H LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3611 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2903 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 142/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 425 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 296000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.31 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 85000 /cmm

Dr. Vinay Chopra

PLATELET LARGE CELL COUNT (P-LCC)
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE8500PLATELET LARGE CELL RATIO (P-LCR)
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE28.9PLATELET DISTRIBUTION WIDTH (PDW)
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE16.4NOTE: TEST CONDUCTED ON EDTA WHOLE BLOODNOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

%

%

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11.0 - 45.0

15.0 - 17.0





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mrs. RITU BANSAL		
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1728131
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN		: 19/Jan/2025 11:52AM
			GDAIL	. 19/ Jail/ 2023 11.32AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	DALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	GLYCOS	YLATED HAEMOGLO	BIN (HBA1)	C)
				-,
WHOLE BLOOD	EMOGLOBIN (HbA1c):	6.3	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA		6.3 134.11		
WHOLE BLOOD by HPLC (HIGH PERFOF ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE		%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)		% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	134.11 ABETES ASSOCIATION (ADA)	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA	134.11 ABETES ASSOCIATION (ADA)	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: F Non dia	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP	134.11 ABETES ASSOCIATION (ADA)	% mg/dL : DHEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: F Non dia At	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI/ REFERENCE GROUP abetic Adults >= 18 years	134.11 ABETES ASSOCIATION (ADA)	% mg/dL : DHEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: F Non dia At	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	134.11 ABETES ASSOCIATION (ADA) GLYCOSYLATEI	% mg/dL : DHEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION: NON dia At Di	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIA REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	134.11 ABETES ASSOCIATION (ADA)	% mg/dL : DHEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00

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.

Goal of therapy:

<7.5

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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IENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
est Name		Value	Unit	Biological Reference interval
nmune disease, but	t does not tell the health practitione	r exactly where the	ne inflammation is in th	e body or what is causing it.
nmune disease, but An ESR can be affe s C-reactive proteir This test may also vstemic lupus eryth ONDITION WITH LO low ESR can be see oolycythaemia), sig s sickle cells in sick OTE:	t does not tell the health practitione ected by other conditions besides inf be used to monitor disease activity ematosus W ESR en with conditions that inhibit the no	r exactly where the flammation. For the and response to prmal sedimentation the the the test of the test of the test of the test of the test of te	he inflammation is in th his reason, the ESR is ty therapy in both of the a ion of red blood cells, s	picallý used in conjunctión with other test such bove diseases as well as some others, such as





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 19/Jan/2025 10:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINICA		Y/BIOCHEMIST	RY
		GLUCOSE FA	STING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

INTERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 3. 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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





AGE/ GENDER : 50 COLLECTED BY : REFERRED BY : Di BARCODE NO. : 01 CLIENT CODE. : K0 CLIENT ADDRESS : 63 Test Name CHOLESTEROL TOTAL: by CHOLESTEROL TOTAL:		ALA CANTT Value	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE Unit	: 1728131 : 012501190009 : 19/Jan/2025 09:21 AM : 19/Jan/2025 09:25AM : 19/Jan/2025 11:34AM
COLLECTED BY : REFERRED BY : Di BARCODE NO. : 01 CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name CHOLESTEROL TOTAL: by CHOLESTEROL TOTAL:	r. D.S.GOEL (AMBALA CANTT) 1524072 OS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMB/		REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012501190009 : 19/Jan/2025 09:21 AM : 19/Jan/2025 09:25AM
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Test Name CHOLESTEROL TOTAL: by CHOLESTEROL OXIDASI				
CHOLESTEROL TOTAL: by CHOLESTEROL OXIDASI		Value	Unit	
by CHOLESTEROL OXIDASI				Biological Reference interval
by CHOLESTEROL OXIDASI			OFILE : BASIC	
by CHOLESTEROL OXIDASI		231.92 ^H	mg/dL	OPTIMAL: < 200.0
		231.92**	ing/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SERUI	M	154.74 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE	OXIDASE (ENZYMATIC)		C	BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL (DI	RECT): SERUM	46.41	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION				BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: SE		154.56 ^H	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTRC	DPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON HDL CHOLESTERC	OL · SERIM	107 718	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPECTRO		185.51 ^H	ling/ uL	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: S		30.95	mg/dL	0.00 - 45.00
by CALCULATED, SPECTRC FOTAL LIPIDS: SERUM	IPHU I UME I K Y	618.58	mg/dL	350.00 - 700.00
by CALCULATED, SPECTRO				
CHOLESTEROL/HDL RA by CALCULATED, SPECTRO		5 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
	-			MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
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(m **DR.VINAY CHOPRA** Ľ7 77. N

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		3.33 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.33	RATIO	3.00 - 5.00
ADVICE		KINDLY	CORRELATE CLINICALL	Y

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.

 Jow 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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN DIRECT by DIAZO MODIFIED, S BILIRUBIN INDIRE by CALCULATED, SPE SGOT/AST: SERUM	SERUM PECTROPHOTOMETRY (CONJUGATED): SERUM PECTROPHOTOMETRY CT (UNCONJUGATED): SERUM CTROPHOTOMETRY	FUNCTIO 0.32 0.08 0.24 26	N TEST (COMPLETE) mg/dL mg/dL mg/dL U/L	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40 0.10 - 1.00 7.00 - 45.00
by IFCC, WITHOUT PY SGPT/ALT: SERUM		34.7	U/L	0.00 - 49.00
by IFCC, WITHOUT PY AST/ALT RATIO: SI by CALCULATED, SPE	ERUM	0.75	RATIO	0.00 - 46.00
ALKALINE PHOSPH		124.57	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	30.97	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRON		6.86	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GI	REEN	4.06	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		2.8	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by calculated, spe		1.45	RATIO	1.00 - 2.00

ADVICE

KINDLY CORRELATE CLINICALLY

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)
	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. RITU BANSAL		
AGE/ GENDER	: 50 YRS/FEMALE	PATIENT ID	: 1728131
COLLECTED BY	:	REG. NO./LAB NO.	: 012501190009
REFERRED BY	: Dr. D.S.GOEL (AMBALA CANTT)	REGISTRATION DATE	: 19/Jan/2025 09:21 AM
BARCODE NO.	: 01524072	COLLECTION DATE	: 19/Jan/2025 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 19/Jan/2025 11:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly In	creased)

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

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

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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD (CEO & Consultant I	Pathology)	
NAME	: Mrs. RITU BANSAL				
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	KIDNE	EY FUNCTION	TEST (COMPLETE)		
UREA: SERUM		29.66	mg/dL	10.00 - 50.00	
CREATININE: SERU		0.86	mg/dL	0.40 - 1.20	
BLOOD UREA NITRO	OGEN (BUN): SERUM	13.86	mg/dL	7.0 - 25.0	
-	OGEN (BUN)/CREATININE	16.12	RATIO	10.0 - 20.0	
UREA/CREATININE	E RATIO: SERUM	34.49	RATIO		
URIC ACID: SERUM	E PEROXIDASE	4.94	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPEC		9.12	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SE		3.19	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	142.5	mmol/L	135.0 - 150.0	
POTASSIUM: SERUN by ISE (ION SELECTIVE	Λ	4.28	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM		106.88	mmol/L	90.0 - 110.0	
	ERULAR FILTERATION RATE				
ESTIMATED GLOMH (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	82.3			

ADVICE

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Vinay Chopra Pathology & Microb man & Consultant		Dr. Yı CEO & Cons	ugam Ch MD (Path sultant Path	ology)	
NAME	: Mrs. RITU BANS	AL					
AGE/ GENDER	: 50 YRS/FEMALE		PAT	IENT ID	: 1	728131	
COLLECTED BY	:		REG.	NO./LAB NO.	: (12501190009	
REFERRED BY	: Dr. D.S.GOEL (AM	BALA CANTT)		ISTRATION DA		9/Jan/2025 09:21	AM
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CLIENT CODE.	: KOS DIAGNOSTIC	IAD		ORTING DATE		9/Jan/2025 11:34	
CLIENT CODE.	: 6349/1, NICHOLS			UNTING DATE		9/Jall/ 2020 11.04	tAW
		011 100112 , 11112112					
Test Name		1	/alue	Uni	it	Biological	l Reference interval
 Prerenal azotemia DECREASED RATIO (< Acute tubular neci Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Nhenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an ir 	nd starvation. e. ccreased urea synthes (urea rather than crea monemias (urea is vi of inappropiate antidi 10:1) WITH INCREASEL apy (accelerates conve eleases muscle creat who develop renal fa 0: psis (acetoacetate cau icreased BUN/creatin	al disease. D BUN : atinine diffuses out rtually absent in bl uretic harmone) du D CREATININE: ersion of creatine to nine). ilure. ses false increase ione ratio).	t of extracellula ood). ue to tubular se o creatinine). in creatinine wi	r fluid). cretion of urea.		resulting in norma	al ratio when dehydrat
ESTIMATED GLOMER	rapy (interferes with c JLAR FILTERATION RA	TE:					7
CKD STAGE			GFR (mL/mi			TED FINDINGS	4
G1 G2		idney function	>9 >9			proteinuria ce of Protein ,	-
GZ		damage with	>9	U		or cost in urino	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

0.	i tormar mario) ranotron		no protoniana
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<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, NICI	IOLSON ROAD, AMBA	LA CANTT		
Test Name			Value	Unit	Biological Reference interva
			IRON	PROFILE	
IRON: SERUM	ROPHOTOMETRY		63.3	μg/dL	37.0 - 145.0
UNSATURATED IRC			254.95	μg/dL	150.0 - 336.0
:SERUM by FERROZINE, SPECT	ROPHOTOMETER	v			
TOTAL IRON BINDI			318.25	μg/dL	230 - 430
SERUM					
%TRANSFERRIN SA			19.89	%	15.0 - 50.0
by CALCULATED, SPEC TRANSFERRIN: SEF		ERY (FERENE)	225.96	mg/dL	200.0 - 350.0
by SPECTROPHOTOM			220.00	ing/ uL	200.0 - 000.0
INTERPRETATION:-					
VARIABI	LES PON:	ANEMIA OF CHRONIC		IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT

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

IRON:

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





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		(Pathology)
NAME	: Mrs. RITU BANSAL			
AGE/ GENDER	: 50 YRS/FEMALE		PATIENT ID	: 1728131
COLLECTED BY	:		REG. NO./LAB NO.	: 012501190009
REFERRED BY	: Dr. D.S.GOEL (AMBALA CANTT)		REGISTRATION DATE	: 19/Jan/2025 09:21 AM
BARCODE NO.	: 01524072		COLLECTION DATE	: 19/Jan/2025 09:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Jan/2025 11:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	THYRO	DID FUNC	TION TEST: TOTAL	
TRIIODOTHYRONII	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	0.958	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	ERUM ESCENT MICROPARTICLE IMMUNOASSAY)	8.01	µgm/dL	4.87 - 12.60
	TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	5.679 ^H	µIU/mL	0.35 - 5.50
3rd GENERATION, ULT	RASENSITIVE		CODDEL ATE CLINICALL	V
ADVICE INTERPRETATION:		KINDLY	CORRELATE CLINICALL	ľ
TSH levels are subject to o day has influence on the r triiodothyronine (T3).Fail		ulates the pr	oduction and secretion of the me	m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidishi) of 14 d	10/01 13.		
CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

3. Serum T4 levels 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 hypothyroidism, pregnancy, phenytoin therapy.

	TRIIODOTHY	ROMINE (13)	IHIKUXI	INE (14)	THYROID STIVIOL	ATING HORIVIONE (TSH)
Î	Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
Î	0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
Î	7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
Î	3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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Test Nome	Value	TI:*+	Pielegical Deference interval

Test Name			Value	Unit		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	
	RECOM	IMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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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		y Chopra ogy & Microbiology) Consultant Pathologist		(Pathology)	
ME	: Mrs. RITU BANSAL				
E/ GENDER	: 50 YRS/FEMALE		PATIENT ID	: 1728131	
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IENT ADDRESS	: 6349/1, NICHOLSON R(
est Name		Value	Unit	Biological Refere	ence interval
	DROXY VITAMIN D3): SE escence immunoassay)	RUM 19 ^L	ng/mL	DEFICIENCY: < 2 INSUFFICIENCY: SUFFICIENCY: 30 TOXICITY: > 100	20.0 - 30.0 0.0 - 100.0
y CLIA (CHEMILUMIN <u>TERPRETATION:</u>	ESCENCE IMMUNOASSAÝ)			INSUFFICIENCY: 30 SUFFICIENCY: 30 TOXICITY: > 100	20.0 - 30.0 0.0 - 100.0
y Clia (Chemilumin <u>Terpretation:</u> Defi		RUM 19 ^L	n	INSUFFICIENCY: SUFFICIENCY: 30	20.0 - 30.0 0.0 - 100.0
Dy CLIA (CHEMILUMIN <u>TERPRETATION:</u> DEFI INSUF PREFFERI INTOXI	ESCENCE IMMUNOASSAÝ) CIENT: FICIENT: ED RANGE: CATION:	< 20 21 - 29 30 - 100 > 100		INSUFFICIENCY: SUFFICIENCY: 30 TOXICITY: > 100	20.0 - 30.0 0.0 - 100.0 .0





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 19/Jan/2025 11:44AM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
2.Ingestion of Estro	gen	2.DRUGS:A	spirin, Anti-convulsants	s, Colchicine			
INCREAS 1.Ingestion of Vitan	SED VITAMIN B12	1.Pregnanc	DECREASED VITAMI	N B12			
2.Ingestion of Estro	gen	2.DRUGS:A	2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitan			3.Ethanol Igestion				
4.Hepatocellular in 5.Myeloproliferativ		4. Contrace 5.Haemodi	ptive Harmones				
6.Uremia	e disorder	6. Multiple					
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo	ency may be due to lack of IF secret l intestinal diseases). ency frequently causes macrocytic coordination, and affective behav ts without macrocytic anemia. nic acid and homocysteine levels a	nd requires intrin ly, reabsorbing vita tion by gastric muc anemia, glossitis, ioral changes. The re also elevated ir	sic factor (IF) for absorg amin B12 from the ileur cosa (eg, gastrectomy, g peripheral neuropathy, se manifestations may u vitamin B12 deficiency	n and returning it to the liver; very little is gastric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have y states.			
NOTE:A normal serur deficiency at the cell	n concentration of vitamin B12 doe	es not rule out tiss linical symptoms s	ue deficiency of vitamin	al cause of vitamin B12 malabsorption. B12. The most sensitive test for vitamin B12 surement of MMA and homocysteine should b			





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AGE/ GENDER	: 50 YRS/FEMALE	PATIENT	ID	: 1728131	
COLLECTED BY	:	REG. NO./	/LAB NO.	: 012501190009	
REFERRED BY	: Dr. D.S.GOEL (AMBALA CANT	T) REGISTR	ATION DATE	: 19/Jan/2025 09:21 AM	
BARCODE NO.	: 01524072		ION DATE	: 19/Jan/2025 09:25AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 19/Jan/2025 09:43AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATHO	LOGY		
	URINE ROI	UTINE & MICROSCOI		ATION	
PHYSICAL EXAMIN					
QUANTITY RECIEV	ED	10	ml		
	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW	
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY		PALE IELLOW		FALE TELLOW	
		CLEAR		CLEAR	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY		1.02		1.002 - 1.030	
by DIP STICK/REFLEC CHEMICAL EXAMI	TANCE SPECTROPHOTOMETRY				
REACTION	MATION	ACIDIC			
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Nagativa			
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)	
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		Negative		NEGATIVE (-ve)	
		-			
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
RED BLOOD CELLS		NEGATIVE (-ve)	/HPF	0 - 3	



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

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

NAME	: Mrs. RITU BANSAL			
AGE/ GENDER	: 50 YRS/FEMALE	PATIEN	T ID	: 1728131
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	0 - 5
EPITHELIAL CELLS	S CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
CDVCTAIC		NECATIVE (NECATIVE (

CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by microscopy on centrifuged urinary sediment	ABSENT	ABSENT

** End Of Report ***



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

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