



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mrs. BHARTI GOEL			
AGE/ GENDER	: 54 YRS/FEMALE		PATIENT ID	: 1722239
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501120006
REFERRED BY	:		REGISTRATION DATE	: 12/Jan/2025 08:59 AM
BARCODE NO.	: 01523773		COLLECTION DATE	: 12/Jan/2025 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Jan/2025 09:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: 1.5 OOD COUNT (CBC)	5
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H		13.4	gm/dL	12.0 - 16.0
by CALORIMETRIC		4 5 9	Millione	/amm 2.50 5.00
RED BLOOD CELL (by HYDRO DYNAMIC F	(KBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.58	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLU	UME (PCV) NUTOMATED HEMATOLOGY ANALYZER	40.2	%	37.0 - 50.0
MEAN CORPUSCUL		87.7	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	29.4	24	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER	29.4	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	33.5	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	13.1	%	11.00 - 16.00
•	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	43.1	fL	35.0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER	43.1	IL	33.0 - 30.0
MENTZERS INDEX by CALCULATED		19.15	RATIO	BETA THALASSEMIA TRAIT: <
by CALCOLATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING INI by CALCULATED	DEX	25.21	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
				IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CE		6480	/cmm	4000 - 11000
	2 COUNT (TLC) Y BY SF CUBE & MICROSCOPY	0460	/ cmm	4000 - 11000
	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
,	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
	UTOMATED HEMATOLOGY ANALYZER			





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LI	EUCOCYTE COUNT (DLC)			
NEUTROPHILS		44 ^L	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	46 ^H	%	20 - 40
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES	RY BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS		0	%	0 - 1
	ey by sf cube & microscopy DCYTES (WBC) COUNT			
ABSOLUTE NEUTE		2851	/cmm	2000 - 7500
ABSOLUTE LYMPH	IOCYTE COUNT ay by sf cube & microscopy	2981	/cmm	800 - 4900
ABSOLUTE EOSIN		194	/cmm	40 - 440
ABSOLUTE MONO		454	/cmm	80 - 880
ABSOLUTE BASOP		0	/cmm	0 - 110
	OTHER PLATELET PREDICTIVE	<u>EMARKERS.</u>		
PLATELET COUNT by HYDRO DYNAMIC	' (PLT) FOCUSING, ELECTRICAL IMPEDENCE	264000	/cmm	150000 - 450000
PLATELETCRIT (P	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.3	%	0.10 - 0.36
MEAN PLATELET V	VOLUME (MPV)	11	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	96000 ^H	/cmm	30000 - 90000
PLATELET LARGE	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	36.3	%	11.0 - 45.0
PLATELET DISTRI	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16	%	15.0 - 17.0

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name	Value	e Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 12/Jan/2025 03:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	GLYCO	SYLATED HAEMO	GLOBIN (HBA10	n
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	DSYLATED HAEMO 5.9 122.63	GLOBIN (HBA10 % % mg/dL	2) 4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.9 122.63	% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN	5.9 122.63 DIABETES ASSOCIATION	% mg/dL (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	5.9 122.63 DIABETES ASSOCIATION	% mg/dL (ADA): 'LATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	5.9 122.63 DIABETES ASSOCIATION	% mg/dL (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	5.9 122.63 DIABETES ASSOCIATION	% mg/dL (ADA): <u>'LATED HEMOGLOGIB</u> <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.9 122.63 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): <u>(ADA): (ATED HEMOGLOGIB</u> <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: Non dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	5.9 122.63 DIABETES ASSOCIATION GLYCOSY Goals of The	% mg/dL (ADA): <u>(ADA):</u> <u>(ATED HEMOGLOGIB</u> <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.9 122.63 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): <u>(ADA):</u> <u>(ATED HEMOGLOGIB</u> <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

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

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

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

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



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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LIENT ADDRESS :			PORTING DATE	
	6349/1, NICHOLSON ROAD, AM	BALA CANTT		: 12/Jan/2025 10:35AM
est Name				
		Value	Unit	Biological Reference interval
stemic lupus erythem DNDITION WITH LOW I low ESR can be seen v olycythaemia), signifil sickle cells in sickle c DTE: ESR and C - reactive p Generally, ESR does r CRP is not affected by If the ESR is elevated, Women tend to have Drugs such as dextrai	hatosus ESR with conditions that inhibit the not cantly high white blood cell coun cell anaemia) also lower the ESR. protein (C-RP) are both markers of hot change as rapidly as does CRP y as many other factors as is ESR, m , it is typically a result of two type a higher ESR, and menstruation a	rmal sedimentation t (leucocytosis) , a inflammation. , either at the star naking it a better r s of proteins, glob nd prognancy can	on of red blood cells, si nd some protein abno t of inflammation or as narker of inflammatior ulins or fibrinogen. cause temporary eleva	n.





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	REC NO /LAR NO	
	KLU. NU./ LAD NU.	: 012501120006
	REGISTRATION DATE	: 12/Jan/2025 08:59 AM
3	COLLECTION DATE	: 12/Jan/2025 09:34AM
NOSTIC LAB	REPORTING DATE	: 12/Jan/2025 12:21PM
NICHOLSON ROAD, AMBALA CANT	ſ	
Value	Unit	Biological Reference interval
.0	Value	GNOSTIC LAB REPORTING DATE NICHOLSON ROAD, AMBALA CANTT

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
HOLESTEROL TOT	AL: SERUM	184.48	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXI		104.10	ing/ uL	BORDERLINE HIGH: 200.0 -
				HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SE	RUM	151.3 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPH	IATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
IDL CHOLESTEROL		44.21	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITIC	DN			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL		110.01	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPEC	CTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON HDL CHOLEST	FROL·SERIM	140.078	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPEC		140.27 ^H	ilig/ uL	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
LDL CHOLESTERO		30.26	mg/dL	0.00 - 45.00
by CALCULATED, SPEC		520.26	mg/dL	350.00 - 700.00
by CALCULATED, SPEC	CTROPHOTOMETRY		Ũ	
CHOLESTEROL/HDI by CALCULATED, SPEC		4.17	RATIO	LOW RISK: 3.30 - 4.40
Sy UNEOULAILD, SPEC				AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.49	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	3.42	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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	Chairman & Consulta	ant Pathologis	t CEO & Consultant	Pathologist
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Test Name		Value	Unit	Biological Reference interval
	INED	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.39	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.09	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT P	[/RIDOXAL PHOSPHATE	17.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[/RIDOXAL PHOSPHATE	22.2	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.78	RATIO	0.00 - 46.00
ALKALINE PHOSP		92.43	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	20.9	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.36	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.13	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPI	Λ	2.23 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.85	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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MD	n Chopra 9 (Pathology) 1 Pathologist
NAME	: Mrs. BHARTI GOEL		
AGE/ GENDER	: 54 YRS/FEMALE	PATIENT ID	: 1722239
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501120006
REFERRED BY	:	REGISTRATION DATE	: 12/Jan/2025 08:59 AM
BARCODE NO.	: 01523773	COLLECTION DATE	: 12/Jan/2025 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 12/Jan/2025 12:30PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
Test Name		Value Unit	Biological Reference interva

DECREASED:

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

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

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



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Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		29.99	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		0.81	mg/dL	0.40 - 1.20
		14.01	mg/dL	7.0 - 25.0
		17.0		10.0.00.0
BLOOD UREA NITH RATIO: SERUM by CALCULATED, SPE	COGEN (BUN)/CREATININE	17.3	RATIO	10.0 - 20.0
UREA/CREATININ	E RATIO: SERUM	37.02	RATIO	
by CALCULATED, SPE URIC ACID: SERUM		4.76	mg/dL	2.50 - 6.80
by URICASE - OXIDAS		4.70	IIIg/ UL	2.30 - 0.80
CALCIUM: SERUM		9.38	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SE		4.14	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE	DATE, SPECTROPHOTOMETRY			
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	136.4	mmol/L	135.0 - 150.0
POTASSIUM: SERU	· · · · · · · · · · · · · · · · · · ·	4.05	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		100.0	1.0	
CHLORIDE: SERUM by ISE (ION SELECTIV		102.3	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	86.2		
<u>INTERPRETATION:</u> To differentiate betw	een pre- and post renal azotemia.			

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.

3. GI haemorrhage.



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	6349/1, NICHOLSON ROAD, AMBAI	LA CANTT		
Fest Name	T	Value Un	it Biological Refer	ence interval
5. Inherited hyperammo 7. SIADH (syndrome of ir 3. Pregnancy. DECREASED RATIO (<10:1 1. Phenacimide therapy 2. Rhabdomyolysis (rele 3. Muscular patients wh NAPPROPIATE RATIO: 1. Diabetic ketoacidosis should produce an incre 2. Cephalosporin therapy <u>ESTIMATED GLOMERULA</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u> <u>G3a</u>	starvation. eased urea synthesis. ea rather than creatinine diffuses ou onemias (urea is virtually absent in b nappropiate antidiuretic harmone) du 1) WITH INCREASED CREATININE: (accelerates conversion of creatine t ases muscle creatinine). o develop renal failure. (acetoacetate causes false increase ased BUN/creatinine ratio). y (interferes with creatinine measure	lood). ue to tubular secretion of urea to creatinine). in creatinine with certain met	hodologies,resulting in normal ratio v ASSOCIATED FINDINGS No proteinuria Presence of Protein , Albumin or cast in urine	when dehydrati
G3b G4				





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Test Name		Value Unit	Biological Reference interval
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	MD (Pathology & Mic Chairman & Consulta	robiology) MI	D (Pathology)
	Dr. Vinay Chopr	a 🕴 Dr. Yuga	m Chopra

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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Test Name			Value	Unit	Biological Reference interva
			IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	,	48.51	μg/dL	37.0 - 145.0
UNSATURATED IR SERUM by FERROZINE, SPEC			242.14	µg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC) :SERUM by SPECTROPHOTOMETERY			290.65	µg/dL	230 - 430
%TRANSFERRIN S.	ATURATION: S		16.69	%	15.0 - 50.0
TRANSFERRIN: SE	RUM	. ,	206.36	mg/dL	200.0 - 350.0
INTERPRETATION:-			_		
VARIAB		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA	-
SERUM II		Normal to Re		Reduced	Normal
TOTAL IRON BINDING CAPACITY: Decreased		Increased Normal			

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.

Decreased < 12-15 %

Decreased

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):

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

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

Decreased

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

Normal or Increased





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Test Name		Value	Unit	Biological Refe	rence interval
	1		CRINOLOGY CTION TEST: TOTAI		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO	0.775 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S		6.94	μgm/d	L 4.87 - 12.60	
THYROID STIMULA	ATING HORMONE (TSH): SE	RUM 2.498	µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE	,			
INTERPRETATION:					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the p	roduction and secretion of the	pm. The variation is of the order of 50 metabolically active hormones, thyro her underproduction (hypothyroidis)	oxine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or L	ow Normal	Normal or Low Normal	High	

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

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.

TRIIODOTHYRONINE (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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Increased

Normal or High Normal





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Reduced (at times undetectable)

Reduced

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name	Value	Unit	Biological Reference interval

.92 - 2.28					
.92 - 2.20	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECOMN	IENDATIONS OF TSH LE	VELS DURING PREG	NANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	.35 - 1.93 RECOMM 1st Trimester 2nd Trimester	.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREG 1st Trimester 2nd Trimester	.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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LIENT ADDRESS	: 6349/1, NICHOLSON F	ROAD, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
		VITAMI	NS	
		VITAMIN D/25 HYDRO	XY VITAMIN D3	
	DROXY VITAMIN D3): SI ESCENCE IMMUNOASSAY)	ERUM 32.5	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT.	< 20		/ml
DEFI	CIENT:	< 20 21 - 29	9	/mL /mL
INSUF PREFFERI INTOX Vitamin D compou	FICIENT: ED RANGE: ICATION: nds are derived from dieta	21 - 29 30 - 100 > 100	ng ng ng Vitamin D2), or chol	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Fest Name		Value	Unit	Biological Reference interval			
<u>NTERPRETATION:-</u> INCREA	IESCENT MICROPARTICLE IMMUNOAS		DECREASED VITAMIN	VB12			
1.Ingestion of Vitar 2.Ingestion of Estro			1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine				
3.Ingestion of Vitar			ol Igestion				
4.Hepatocellular in			raceptive Harmones				
5.Myeloproliferativ	e disorder		nodialysis				
6.Uremia Vitamin B12 (coba	amin) is necessary for hematopol		ple Myeloma				
2.In humans, it is ob		ally, reabsorbing	vitamin B12 from the ileun	tion. n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg			





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	NICHOLSON ROAD, AMBALA C		NGDATE	. 12/Jail/ 2025 10.20AM
Test Name	Valu	ie	Unit	Biological Reference interval
	CLINI	CAL PATHO	LOGY	
	URINE ROUTINE 8	MICROSCOP	PIC EXAMINA	ATION
PHYSICAL EXAMINATION				
QUANTITY RECIEVED	10		ml	
by DIP STICK/REFLECTANCE SPECT COLOUR		E YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECT TRANSPARANCY	rophotometry CLF	ΛD		CLEAR
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECT		.030		1.002 - 1.030
CHEMICAL EXAMINATION				
REACTION by DIP STICK/REFLECTANCE SPECT	ACI	DIC		
PROTEIN	Neg	ative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT		ative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT				5.0 - 7.5
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLECTANCE SPECT		ative		NEGATIVE (-ve)
NITRITE		ative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT UROBILINOGEN by DIP STICK/REFLECTANCE SPECT	Nor	rmal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECT	Neg	ative		NEGATIVE (-ve)
BLOOD	Neg	ative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT ASCORBIC ACID by DIP STICK/REFLECTANCE SPECT MICROSCOPIC EXAMINATIO	ROPHOTOMETRY NEC ROPHOTOMETRY	GATIVE (-ve)		NEGATIVE (-ve)
RED BLOOD CELLS (RBCs)	_	GATIVE (-ve)	/HPF	0 - 3

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

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NAME

BARCODE NO.

CLIENT CODE.





Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist : Mrs. BHARTI GOEL AGE/ GENDER **PATIENT ID** :1722239 : 54 YRS/FEMALE **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012501120006 **REFERRED BY REGISTRATION DATE** : 12/Jan/2025 08:59 AM : **COLLECTION DATE** :01523773 : 12/Jan/2025 09:34AM : KOS DIAGNOSTIC LAB **REPORTING DATE** : 12/Jan/2025 10:28AM

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
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



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