

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mr. ROHIT GOEL				
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1722238	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501120005	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBAI	LA CANTT)	REGISTRATION DATE	: 12/Jan/2025 08:58 AM	
BARCODE NO.	:01523772		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 inte	rval
			LLNESS PANEL: 1.5 OOD COUNT (CBC)	5	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)	15.4	gm/dL	12.0 - 17.0	
RED BLOOD CELL (R	BC) COUNT cusing, electrical impedence	5.31 ^H	Millions/	/cmm 3.50 - 5.00	
PACKED CELL VOLU		45.9	%	40.0 - 54.0	
MEAN CORPUSCULA by CALCULATED BY AU	R VOLUME (MCV) TOMATED HEMATOLOGY ANALYZER	86.4	fL	80.0 - 100.0	
by CALCULATED BY AU	R HAEMOGLOBIN (MCH)	29.1	pg	27.0 - 34.0	
by CALCULATED BY AU	R HEMOGLOBIN CONC. (MCHC)	33.6	g/dL	32.0 - 36.0	
	TION WIDTH (RDW-CV)	14.4	%	11.00 - 16.00	
RED CELL DISTRIBU	TION WIDTH (RDW-SD) TOMATED HEMATOLOGY ANALYZER	46.7	fL	35.0 - 56.0	
MENTZERS INDEX		16.27	RATIO	BETA THALASSEMIA TRA 13.0 IRON DEFICIENCY ANEM >13.0	
GREEN & KING INDI	ΞX	23.51	RATIO	BETA THALASSEMIA TR/ 65.0 IRON DEFICIENCY ANEM 65.0	
WHITE BLOOD CEL					
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	8340	/cmm	4000 - 11000	
NUCLEATED RED BL	.OOD CELLS (nRBCS) THEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
NUCLEATED RED BL	OOD CELLS (nRBCS) % TOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %	





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DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	51	%	50 - 70
	Y BY SF CUBE & MICROSCOPY	40	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS by FLOW CYTOMETRY	/ BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
ABSOLUTE NEUTRO	OPHIL COUNT / by sf cube & microscopy	4253	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETRY	OCYTE COUNT / by sf cube & microscopy	3336	/cmm	800 - 4900
ABSOLUTE EOSINO	PHIL COUNT / by sf cube & microscopy	167	/cmm	40 - 440
ABSOLUTE MONOC by FLOW CYTOMETRY	YTE COUNT / by sf cube & microscopy	584	/cmm	80 - 880
ABSOLUTE BASOPH by FLOW CYTOMETRY	HIL COUNT / by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND O	THER PLATELET PREDICTIVE	E MARKERS.		
PLATELET COUNT ((PLT) OCUSING, ELECTRICAL IMPEDENCE	281000	/cmm	150000 - 450000
PLATELETCRIT (PC by HYDRO DYNAMIC F	T) OCUSING, ELECTRICAL IMPEDENCE	0.32	%	0.10 - 0.36
MEAN PLATELET V	OLUME (MPV) OCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
	CELL COUNT (P-LCC)	96000 ^H	/cmm	30000 - 90000
PLATELET LARGE (CELL RATIO (P-LCR)	34.1	%	11.0 - 45.0
PLATELET DISTRIE	BUTION WIDTH (PDW) OCUSING, ELECTRICAL IMPEDENCE CTED ON EDTA WHOLE BLOOD	16.5	%	15.0 - 17.0

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



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Test Name	Value	Unit	Biological Reference interval



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Test Name		Value	Unit	Biological	Reference interval
CI VCOCVI ATED IIA		DSYLATED HA	AEMOGLOBIN (HBA1) %	C) 4.0 - 6.4	
WHOLE BLOOD	EMOGLOBIN (HbA1c):	5.5	70	4.0 - 0.4	
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	105.41	mg/dL	60.00 - 140	0.00
INTERPRETATION:					
	AS PER AMERICAN				
-	REFERENCE GROUP	G	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		
	abetic Adults >= 18 years	1	<5.7		
	t Risk (Prediabetes)	5.7 - 6.4			
Di	agnosing Diabetes		>= 6.5		
			Age > 19 Years		
These li	in and a few allowands and the l		s of Therapy:	< 7.0	
inerapeuti	c goals for glycemic control	Actior	ns Suggested:	>8.0	
			Age < 19 Years	7.5	
		Goal	l of therapy:	<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 appropiate.

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 faisely 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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CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by RED CELL AGGREC NTERPRETATION: . ESR is a non-specif	DIMENTATION RATE SATION BY CAPILLARY PH c test because an eleva does not tell the health	otometry	mm/1st the presence of inflammat e the inflammation is in the	on associated with infection, cancer and auto-
by RED CELL AGGREG NTERPRETATION: 1. ESR is a non-specif mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOW A low ESR can be see polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive	CATION BY CAPILLARY PH c test because an eleva does not tell the health cted by other conditions be used to monitor dise matosus V ESR n with conditions that in ificantly high white blo e cell anaemia) also lov e protein (C-RP) are bot	otometray ted result often indicates practitioner exactly when s besides inflammation. F ase activity and response whibit the normal sedimen od cell count (leucocytosi ver the ESR.	the presence of inflammat te the inflammation is in the or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s s), and some protein abno	hr 0 - 20 on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 12/Jan/2025 12:14PM
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Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY	/BIOCHEMISTR	Y
		GLUCOSE FAS	ГING (F)	
CLUCOSE EASTING	(F): PLASMA E - PEROXIDASE (GOD-POD)	85.51	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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. 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 Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		197.68	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	154.1 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	48.62	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		118.24	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by calculated, spe		149.06 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE		30.82	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER	UM	549.46	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	4.07	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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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.43	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	3.17	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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BILIRUBIN TOTAL		FUNCTIO 0.72	N TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT	C (CONJUGATED): SERUM	0.17	mg/dL	ADOL1: 0.00 - 1.20 0.00 - 0.40
-	CT (UNCONJUGATED): SERUM	0.55	mg/dL	0.10 - 1.00
	RIDOXAL PHOSPHATE	18.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21.8	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ECTROPHOTOMETRY	0.87	RATIO	0.00 - 46.00
ALKALINE PHOSPI by para nitrophen propanol	HATASE: SERUM yl phosphatase by amino methyl	91.03	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM Phtometry	24.31	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.41	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.17	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	1	3.24	gm/dL	2.30 - 3.50

by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

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)

1.29



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RATIO

1.00 - 2.00

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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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	KIDNI	EY FUNCTIO)N TEST (COMPLETE)	
UREA: SERUM		19.67	mg/dL	10.00 - 50.00
CREATININE: SERU by ENZYMATIC, SPEC		0.95	mg/dL	0.40 - 1.40
-	OGEN (BUN): SERUM	9.19	mg/dL	7.0 - 25.0
	OGEN (BUN)/CREATININE	9.67 ^L	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	20.71	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		7.39	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE		9.61	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		3.94	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	E ELECTRODE)	137	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.12	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	E ELECTRODE)	102.75	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE een pre- and post renal azotemia.	95.1		

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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		Chopra gy & Microbiology) Consultant Pathologis		Ugam Chopra MD (Pathology) sultant Pathologist		
NAME	: Mr. ROHIT GOEL					
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 172223	8	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	· 01250	1120005	
REFERRED BY	: CENTRAL PHOENIX CLUE				/2025 08:58 AM	Л
		(AIVIDALA CANTT)				
ARCODE NO.	: 01523772		COLLECTION DATE		2025 09:34AM	
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Jan/	2025 12:20PM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT				
Fest Name		Value	Uni	it	Biological Ref	eference interva
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia 	ass (subnormal creatinine pr tetracycline, glucocorticoids 0:1) WITH ELEVATED CREATIN (BUN rises disproportionate superimposed on renal disea) JINE LEVELS: ly more than creatin	ine) (e.g. obstructive	uropathy).		
 P. Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther ESTIMATED GLOMERL G1 G2 	tetracycline, glucocorticoids 0:1) WITH ELEVATED CREATIN (BUN rises disproportionate superimposed on renal disea 0:1) WITH DECREASED BUN : osis. d starvation. e. creased urea synthesis. urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 0:1) WITH INCREASED CREAT py (accelerates conversion of eleases muscle creatinine). who develop renal failure.	JINE LEVELS: ly more than creating ly more than creating ise. diffuses out of extransion bsent in blood). armone) due to tube infine: f creatine to creating e increase in creating b). the measurement). in Constrained with of GFR	cellular fluid). Ilar secretion of urea. ne).		NDINGS Iuria rotein ,	tio when dehydr
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia CEREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Nepeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. Pregnancy. Phenacimide thera Rhabdomyolysis (r Napproplate RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STATED GLOMERL CKD STAGE G1	tetracycline, glucocorticoids 0:1) WITH ELEVATED CREATIN (BUN rises disproportionate superimposed on renal disea 0:1) WITH DECREASED BUN : osis. ad starvation. b. creased urea synthesis. urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 0:1) WITH INCREASED CREAT py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fals creased BUN/creatinine ratio apy (interferes with creatinine). ULAR FILTERATION RATE: DESCRIPTION Normal kidney further and the second sec	INE LEVELS: ly more than creating ise. diffuses out of extraction ibsent in blood). armone) due to tubut iNINE: f creatine to creating in creatine to creating b). ie measurement). in GFR in GFR n GFR	cellular fluid). Jar secretion of urea. ne). ine with certain meth <u>mL/min/1.73m2)</u> >90 >90	nodologies,resultir ASSOCIATED FII No protein Presence of Pr	NDINGS Iuria rotein ,	tio when dehydr
 P. Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERU G1 G2 	tetracycline, glucocorticoids 0:1) WITH ELEVATED CREATIN (BUN rises disproportionate superimposed on renal disea 0:1) WITH DECREASED BUN : osis. ad starvation. creased urea synthesis. urea rather than creatinine of monemias (urea is virtually a of inappropiate antidiuretic h 0:1) WITH INCREASED CREAT py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fals creased BUN/creatinine ratio apy (interferes with creatinine). Who develop renal failure. : sis (acetoacetate causes fals creased BUN/creatinine ratio apy (interferes with creatinine). Mormal kidney fa Kidney damage normal or high Mild decrease in	JINE LEVELS: ly more than creating ly more than creating ise. diffuses out of extraction ibsent in blood). armone) due to tubut inner f creatine to creating e increase in creating b). ie measurement). in GFR in GFR in GFR in GFR in GFR	cellular fluid). Jar secretion of urea. ne). ine with certain meth <u>mL/min/1.73m2) >90 >90 60 -89</u>	nodologies,resultir ASSOCIATED FI No protein Presence of Pr	NDINGS Iuria rotein ,	tio when dehydr





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NAME	: Mr. ROHIT GOEL		
AGE/ GENDER	: 54 YRS/MALE	PATIENT ID	: 1722238
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501120005
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 12/Jan/2025 08:58 AM
BARCODE NO.	: 01523772	COLLECTION DATE	: 12/Jan/2025 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 12/Jan/2025 12:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	
			/
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 CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Jan/2025 12:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	73.62	μg/dL	59.0 - 158.0
UNSATURATED IR :SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	268.14	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM	NG CAPACITY (TIBC)	341.76	µg/dL	230 - 430
%TRANSFERRIN S	ATURATION: SERUM ECTROPHOTOMETERY (FERENE)	21.54	%	15.0 - 50.0
TRANSFERRIN: SE		242.65	mg/dL	200.0 - 350.0

by SPECTROPHOTOMETERY (FERENE)

IN	TER	<u>PRE</u>	TAT	<u>ION:-</u>	

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
DON.			

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





	М	r. Vinay Chopra D (Pathology & Microbiology) nairman & Consultant Patholog		(Pathology)
NAME	: Mr. ROHIT GO	EL		
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1722238
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501120005
REFERRED BY	: CENTRAL PHO	ENIX CLUB (AMBALA CANTT)) REGISTRATION DATE	: 12/Jan/2025 08:58 AM
BARCODE NO.	:01523772		COLLECTION DATE	: 12/Jan/2025 09:34AM
CLIENT CODE.	: KOS DIAGNOS	ΓIC LAB	REPORTING DATE	: 12/Jan/2025 11:48AM
CLIENT ADDRESS	: 6349/1, NICH	DLSON ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interva
		ENDO	CRINOLOGY	
		THYROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONII	(-)	1.205 TICLE IMMUNOASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN		8.97 TICLE IMMUNOASSAY)	µgm/dL	4.87 - 12.60
THYROID STIMULA by CMIA (CHEMILUMIN			µIU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the	measured serum TSH o	concentrations. TSH stimulates the p	production and secretion of the m	m. The variation is of the order of 50%.Hence time of tetabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or
overproduction(hyperth)				

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.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMU	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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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NAME	: Mr. ROHIT GOEL		
AGE/ GENDER	: 54 YRS/MALE	PATIENT ID	: 1722238
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501120005
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 12/Jan/2025 08:58 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTI		

Гest Name		Value	Unit	t	Biological Reference interval	
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	MMENDATIONS OF TSH L	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (Pat	n ay Chopra hology & Microbiology) in & Consultant Pathologis		(Pathology)
NAME	: Mr. ROHIT GOEL			
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1722238
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501120005
REFERRED BY	CENTRAL PHOENIX	CLUB (AMBALA CANTT)		: 12/Jan/2025 08:58 AM
BARCODE NO.	: 01523772		COLLECTION DATE	: 12/Jan/2025 09:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LA	B	REPORTING DATE	: 12/Jan/2025 11:48AM
CLIENT ADDRESS		I ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VII	TAMINS	
			YDROXY VITAMIN D	3
VITAMIN D (25-HYDROXY VITAMIN D3): S by Clia (Chemiluminescence immunoassay)		SERUM 43.9	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				TOXICIT 1. > 100.0
	CIENT:	< 20		g/mL
	FICIENT: ED RANGE:	<u>21 - 29</u> 30 - 100		g/mLg/mL
	ICATION:	> 100		g/mL
conversion of 7- dihy	drocholecalciferol to Vit	tamin D3 in the skin upor	n Ultraviolet exposure.	lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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GE/ GENDER : 54 OLLECTED BY : SU EFERRED BY : CE ARCODE NO. : 01 LIENT CODE. : KO	r. ROHIT GOEL YRS/MALE RJESH INTRAL PHOENIX CLUB (AMBALA 523772 DS DIAGNOSTIC LAB 649/1, NICHOLSON ROAD, AMBAL	COLLECTION DATE REPORTING DATE	: 1722238 : 012501120005 E : 12/Jan/2025 08:58 AM : 12/Jan/2025 09:34AM : 12/Jan/2025 12:14PM
OLLECTED BY: SUEFERRED BY: CHARCODE NO.: 01LIENT CODE.: KOLIENT ADDRESS: 63	RJESH ENTRAL PHOENIX CLUB (AMBALA 523772 OS DIAGNOSTIC LAB 549/1, NICHOLSON ROAD, AMBAL	REG. NO./LAB NO. CANTT) REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012501120005 E : 12/Jan/2025 08:58 AM : 12/Jan/2025 09:34AM
EFERRED BY : CF ARCODE NO. : 01 LIENT CODE. : K(LIENT ADDRESS : 63	NTRAL PHOENIX CLUB (AMBALA 523772 OS DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AMBAL	CANTT) REGISTRATION DATE COLLECTION DATE REPORTING DATE	E : 12/Jan/2025 08:58 AM : 12/Jan/2025 09:34AM
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ARCODE NO. : 01 LIENT CODE. : K(LIENT ADDRESS : 63	523772 DS DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AMBAL	COLLECTION DATE REPORTING DATE	: 12/Jan/2025 09:34AM
LIENT CODE. : K(LIENT ADDRESS : 63	OS DIAGNOSTIC LAB 49/1, NICHOLSON ROAD, AMBAL	REPORTING DATE	
LIENT ADDRESS : 63	49/1, NICHOLSON ROAD, AMBAL		: 12/Jan/2025 12:14PM
'est Name	V		
		alue Unit	Biological Reference interval
		MIN B12/COBALAMIN 49 ^L pg/ml	L 190.0 - 890.0
NTERPRETATION:-			MIN D10
INCREASED VI 1.Ingestion of Vitamin C		DECREASED VITAI	
2.Ingestion of Estrogen		2.DRUGS:Aspirin, Anti-convulsa	nts. Colchicine
3.Ingestion of Vitamin A		3.Ethanol Igestion	
4.Hepatocellular injury		4. Contraceptive Harmones	
5.Myeloproliferative disc	rder	5.Haemodialysis	
6.Uremia	is necessary for hematopoiesis an	6. Multiple Myeloma	
In humans, it is obtained. The body uses its vitamin xcreted. Vitamin B12 deficiency n eal resection, small intes Vitamin B12 deficiency f roprioception, poor coord ne neurologic defects with Serum methylmalonic ac Follow-up testing for ant OTE: A normal serum con	only from animal proteins and red B12 stores very economically, rea hay be due to lack of IF secretion by tinal diseases). requently causes macrocytic anem dination, and affective behavioral of nout macrocytic anemia. id and homocysteine levels are also ibodies to intrinsic factor (IF) is red centration of vitamin B12 does not	quires intrinsic factor (IF) for absobsorbing vitamin B12 from the ile y gastric mucosa (eg, gastrectomy ia, glossitis, peripheral neuropath hanges. These manifestations may be elevated in vitamin B12 deficient commended to identify this poter rule out tissue deficiency of vitar	eum and returning it to the liver; very little is y, gastric atrophy) or intestinal malabsorption (eg, hy, weakness, hyperreflexia, ataxia, loss of ay occur in any combination; many patients have





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME : Mr. I	ROHIT GOEL			
AGE/ GENDER : 54 YI	RS/MALE	PA	FIENT ID	: 1722238
COLLECTED BY : SURJ	ESH	RE	G. NO./LAB NO.	: 012501120005
REFERRED BY : CENT	TRAL PHOENIX CLUB (AN	MBALA CANTT) RE	GISTRATION DATE	: 12/Jan/2025 08:58 AM
BARCODE NO. : 0152	3772	CO	LLECTION DATE	: 12/Jan/2025 09:34AM
CLIENT CODE. : KOS	DIAGNOSTIC LAB	RE	PORTING DATE	: 12/Jan/2025 10:27AM
CLIENT ADDRESS : 6349	9/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOCY	
		UTINE & MICRO	SCOPIC EXAMINA	ATION
PHYSICAL EXAMINATION	l	10		
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SI	PECTROPHOTOMETRY	10	ml	
COLOUR		PALE YELLO	W	PALE YELLOW
by DIP STICK/REFLECTANCE SI TRANSPARANCY	PECTROPHOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLECTANCE S	PECTROPHOTOMETRY			
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SI	PECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINATIO				
REACTION		ACIDIC		
by DIP STICK/REFLECTANCE SI PROTEIN	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE S	PECTROPHOTOMETRY	-		
SUGAR by DIP STICK/REFLECTANCE SI	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		<=5.0		5.0 - 7.5
by DIP STICK/REFLECTANCE SI BILIRUBIN	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SI	PECTROPHOTOMETRY			
NITRITE by DIP STICK/REFLECTANCE SI	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SI KETONE BODIES	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE S	PECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLECTANCE SI	PECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLECTANCE SI MICROSCOPIC EXAMINAT	PECTROPHOTOMETRY	NEGATIVE (-	ve)	NEGATIVE (-ve)
RED BLOOD CELLS (RBCs)		NEGATIVE (-	ve) /HPF	0 - 3
KED DLOOD CELES (KDCS)		INEGATIVE (-		0-5



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Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology Chairman & Cc		1icrobiology) MD Itant Pathologist CEO & Consultant		(Pathology) : Pathologist	
NAME	: Mr. ROHIT GOEL				
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1722238	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501120005	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMB	ALA CANTT)	REGISTRATION DATE	: 12/Jan/2025 08:58 AM	
BARCODE NO.	: 01523772		COLLECTION DATE	: 12/Jan/2025 09:34AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Jan/2025 10:27AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON C	S CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT	

NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
ABSENT	ABSENT
	NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

*** End Of Report *



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