



	Dr. Vinay Chopra	a	Dr. Yugar	n Chopra	
	MD (Pathology & Micr Chairman & Consultan			D (Pathology) nt Pathologist	
NAME : Mr.	ANUJ				
AGE/ GENDER : 29 Y	'RS/MALE		PATIENT ID	: 1719746	
COLLECTED BY :			REG. NO./LAB NO.	:012501090	011
REFERRED BY :			REGISTRATION DATE	:09/Jan/2025	09:43 AM
	23653		COLLECTION DATE	:09/Jan/2025	09:44AM
	DIAGNOSTIC LAB		REPORTING DATE	: 09/Jan/2025	10:15AM
CLIENT ADDRESS : 634	9/1, NICHOLSON ROAD, AMBA	ALA CANTT			
Test Name		Value	Unit	Biolo	gical Reference interval
	SWASTI	HYA WE	LLNESS PANEL: 1	.5	
			DOD COUNT (CBC)		
RED BLOOD CELLS (RBC	S) COUNT AND INDICES				
HAEMOGLOBIN (HB)		15	gm/dL	12.0	- 17.0
RED BLOOD CELL (RBC) C		5.26 ^H	Millions	s/cmm 3.50	- 5.00
PACKED CELL VOLUME (F	PCV) TED HEMATOLOGY ANALYZER	46.2	%	40.0	- 54.0
MEAN CORPUSCULAR VO	LUME (MCV) ted hematology analyzer	87.8	fL	80.0	- 100.0
MEAN CORPUSCULAR HA	EMOGLOBIN (MCH) ted hematology analyzer	28.5	pg	27.0	- 34.0
	MOGLOBIN CONC. (MCHC) TED HEMATOLOGY ANALYZER	32.5	g/dL	32.0	- 36.0
RED CELL DISTRIBUTION by CALCULATED BY AUTOMA	WIDTH (RDW-CV) ted hematology analyzer	12.2	%	11.0	0 - 16.00
RED CELL DISTRIBUTION by CALCULATED BY AUTOMA	WIDTH (RDW-SD) TED HEMATOLOGY ANALYZER	40.1	fL	35.0	- 56.0
MENTZERS INDEX by CALCULATED		16.69	RATIO	13.0	A THALASSEMIA TRAIT: < N DEFICIENCY ANEMIA: 0
GREEN & KING INDEX by CALCULATED		20.35	RATIO	65.0	N DEFICIENCY ANEMIA: >
WHITE BLOOD CELLS (W	<u>/BCS)</u>				
FOTAL LEUCOCYTE COUN by FLOW CYTOMETRY BY SF	CUBE & MICROSCOPY	5660	/cmm	4000) - 11000
NUCLEATED RED BLOOD by automated 6 part Hema		NIL		0.00	- 20.00
			%		%





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



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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	47 ^L	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	44 ^H	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2660	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2490	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	113	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	396	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	238000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.28	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	12	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	94000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	39.6	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.6	%	15.0 - 17.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL/	A CANTT	
Test Name	V	alue Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 09/Jan/2025 01:52PM
			DATE DATE	. 09/ Jail/ 2023 01.32F M
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD	EMOGLOBIN (HbA1c):	4.6	%	4.0 - 6.4
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	85.32	mg/dL	60.00 - 140.00
<u>INTERPRETATION:</u>				
		N DIABETES ASSOCIATION		
	REFERENCE GROUP	GLYCOS	/LATED HEMOGLOGIB (H	HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
U	iagnosing Diabetes		>= 6.5	
		Goals of The	Age > 19 Years	< 7.0
There is a	ic goals for glycemic control	Actions Sugg		>8.0
Inerapeut	0 0 0			
Inerapeut			Age < 19 Years	

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 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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		Chopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
mune disease, but An ESR can be affe C-reactive protein	does not tell the health practi cted by other conditions besid be used to monitor disease ac	tioner exactly where the es inflammation. For this	inflammation is in the sreason, the ESR is ty	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as
DNDITION WITH'LO' low ESR can be see olycythaemia), sigr sickle cells in sickl OTE: ESR and C - reactiv Generally, ESR doe CRP is not affected If the ESR is elevat	N ESR n with conditions that inhibit t	count (leucocytosis), ar ESR. ers of inflammation. s CRP, either at the start ESR, making it a better m o types of proteins, globi	of inflammation or as a rker of inflammation	1.





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CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	C	LINICAL CHEMIST	TRY/BIOCHEMIST	'RY
	C		TRY/BIOCHEMIST FASTING (F)	'nY

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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.

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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CLIENT ADDRESS : 6349/1, NICHO	DLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	I IDIN DR	OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM		mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	265.2 ^H	iiig/ uL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SERUM	190.88 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (ENZ	ZYMATIC)		BORDERLINE HIGH: 150.0 -
			199.0
			HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SER	UM 49.09	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION		Ũ	BORDERLINE HIGH HDL: 30.0
			60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM	177.93 ^H	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMETRY	/ 1/7.93	ing, uz	ABOVE OPTIMAL: 100.0 - 129.0
			BORDERLINE HIGH: 130.0 -
			159.0 HIGH: 160.0 - 189.0
			VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUM	216.11 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
VI DI CUOI ESTEDOL SEDUM	00.10		VERY HIGH: $> OR = 220.0$
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	38.18	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SERUM	721.28 ^H	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUN		RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY	3.4	IVATIO	AVERAGE RISK: 4.50 - 7.0
			MODERATE RISK: 7.10 - 11.0
			HIGH RISK: > 11.0
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		Index	
RESERVED BAR		Jucken	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		3.62 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL RATIO: SERUM	3.89	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.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

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





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Test Name		Value	Unit	Biological Reference interv
	LIVER	FUNCTION '	TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	1.24 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.28	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.96	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	44.1	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	83.1 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.53	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	47.67	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	83.88 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.09	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.12	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.97	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	M	1.39	RATIO	1.00 - 2.00

Dr. Vinay Chopra

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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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).

PROGNOSTIC SIG	NIFICANCE:

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 FUNCTION	TEST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)	22.6	mg/dL	10.00 - 50.00
CREATININE: SERU		1.02	mg/dL	0.40 - 1.40
BLOOD UREA NITE by CALCULATED, SPE	COGEN (BUN): SERUM	10.56	mg/dL	7.0 - 25.0
BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	10.35	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE		22.16	RATIO	
URIC ACID: SERUM		6.68	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.28	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.11	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	140.12	mmol/L	135.0 - 150.0
POTASSIUM: SERUE by ISE (ION SELECTIV	M	4.26	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	1	105.09	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	102		

Dr. Vinay Chopra

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





0 9001.2000 CENT					
	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	Microbiology)		n Chopra D (Pathology) It Pathologist	
NAME	: Mr. ANUJ				
AGE/ GENDER	: 29 YRS/MALE	РА	FIENT ID	: 1719746	
COLLECTED BY	:		G. NO./LAB NO.	: 012501090011	
			GISTRATION DATE		
REFERRED BY	:			: 09/Jan/2025 09:43	
BARCODE NO.	: 01523653		LLECTION DATE	: 09/Jan/2025 09:44	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 09/Jan/2025 12:21	IPM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT			
Test Name		Value	Unit	Biologica	l Reference interval
5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO	creased urea synthesis. (urea rather than creatinine diffus: monemias (urea is virtually absen of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure.	t in blood). ne) due to tubular s :: tine to creatinine).	ecretion of urea.		
should produce an in 2. Cephalosporin there	sis (acetoacetate causes false incr creased BUN/creatinine ratio). apy (interferes with creatinine me		viti certain methodol	ogies,resulting in norma	a ratio when denydration
ESTIMATED GLOMERU CKD STAGE	JLAR FILTERATION RATE: DESCRIPTION	CED (ml /n	nin/1.73m2) AS	SSOCIATED FINDINGS	7
G1	Normal kidney function		90	No proteinuria	1
G2	Kidney damage with normal or high GFR	1 >	90 P	Presence of Protein , pumin or cast in urine	1
G3a	Mild decrease in GFF		-89	Summ of cust in unite	1
G3b	Moderate decrease in 0	GFR 30	-59]
G4	Severe decrease in GF		-29		1
G5	Kidney failure	<	15		1





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





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Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Jan/2025 12:21PM
BARCODE NO.	: 01523653	COLLECTION DATE	:09/Jan/202509:44AM
REFERRED BY	:	REGISTRATION DATE	: 09/Jan/2025 09:43 AM
COLLECTED BY	:	REG. NO./LAB NO.	: 012501090011
AGE/ GENDER	: 29 YRS/MALE	PATIENT ID	: 1719746
NAME	: Mr. ANUJ		
	MD (Pathology & Micro Chairman & Consultant	obiology) MI	D (Pathology)
	Dr. Vinay Chopra	I Dr Yuga	n 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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NAME	: Mr. ANUJ		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Va	lue Unit	Biological Reference interval
		IRON PROFILE	

	IRON P	ROFILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY	78.51	µg/dL	59.0 - 158.0
UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM by FERROZINE, SPECTROPHOTOMETERY	326.06	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC) :SERUM by SPECTROPHOTOMETERY	424.57	µg/dL	230 - 430
%TRANSFERRIN SATURATION: SERUM by Calculated, spectrophotometery (ferene)	18.49	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)	301.44	mg/dL	200.0 - 350.0
INTERPRETATION:-			
	IIC DISEASE		THALASSEMIA ~/B 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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	Dr. Vinay C MD (Pathology Chairman & Co		M	am Chopra 1D (Pathology) ant Pathologist	
NAME	: Mr. ANUJ				
AGE/ GENDER	: 29 YRS/MALE		PATIENT ID	: 1719746	
COLLECTED BY	:		REG. NO./LAB NO.	:012501090011	
REFERRED BY	:		REGISTRATION DATE	: 09/Jan/2025 09:43 AM	
BARCODE NO.	: 01523653		COLLECTION DATE	:09/Jan/202509:44AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jan/2025 10:58AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT'	Г		
Test Name		Value	Unit	Biological Refe	rence interval
	T		CRINOLOGY CTION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO	0.958 ASSAY)	ng/ml	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immuno,	8.98 ASSAY)	μgm/o	4.87 - 12.60	
	ATING HORMONE (TSH): SER		µIU/n	nL 0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. 1	SH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 5 e metabolically active hormones, thyr ther underproduction (hypothyroidis	oxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH]
Primary Hypothyroidis		v Nie wrasi	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Lov	w ivormal	Normal or Low Normal	High	

LIMITATIONS:-

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

Reduced (at times undetectable)

Reduced

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	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING 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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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mr. ANUJ		
AGE/ GENDER	: 29 YRS/MALE	PATIENT ID	: 1719746
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Jan/2025 10:58AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	

Test Name	est Name Value U		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	
	RECO	MMENDATIONS OF TSH LI	VELS 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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	MD (Pat	n ay Chopra thology & Microbiology) an & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
IAME	: Mr. ANUJ			
AGE/ GENDER	: 29 YRS/MALE]	PATIENT ID	: 1719746
COLLECTED BY	:]	REG. NO./LAB NO.	: 012501090011
REFERRED BY	:]	REGISTRATION DATE	: 09/Jan/2025 09:43 AM
BARCODE NO.	:01523653		COLLECTION DATE	: 09/Jan/2025 09:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LA	AB	REPORTING DATE	: 09/Jan/2025 10:58AM
CLIENT ADDRESS	: 6349/1, NICHOLSON	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			AMINS DROXY VITAMIN D	3
by CLIA (CHEMILUMINE	DROXY VITAMIN D3): SCENCE IMMUNOASSAY)	SERUM 19.8 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>Nterpretation:</u> Defic	IENT:	< 20	n	g/mL
INSUFF	ICIENT:	21 - 29	n	g/mL
PREFFERE INTOXIC		<u> </u>		g/mLg/mL
conversion of 7- dihyc 2.25-OHVitamin D re tissue and tightly bou 3. Vitamin D plays a pr phosphate reabsorpti 4.Severe deficiency m DECREASED: 1. Lack of sunshine ext 2. Inadequate intake, 1 3. Depressed Hepatic V 4.Secondary to advance	Procholecalciferol to Vi presents the main bod nd by a transport prote- imary role in the main on, skeletal calcium de ay lead to failure to mi posure. malabsorption (celiac of /itamin D 25- hydroxyla ced Liver disease econdary Hyperparathr	tamin D3 in the skin upon I y resevoir and transport for ein while in circulation. tenance of calcium homeor position, calcium mobilizat neralize newly formed oste disease) ase activity oidism (Mild to Moderate of	JItraviolet exposure. rm of Vitamin D and trans statis. It promotes calcium ion, mainly regulated by p eoid in bone, resulting in r deficiency)	Tecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults.





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		y & Microbiology) Consultant Pathologist	CEO & Consultant Pa	athology) athologist
AME	: Mr. ANUJ			
GE/ GENDER	: 29 YRS/MALE	PAT	IENT ID	: 1719746
OLLECTED BY	:	REG.	NO./LAB NO.	: 012501090011
EFERRED BY		REG	STRATION DATE	: 09/Jan/2025 09:43 AM
ARCODE NO.	: 01523653		LECTION DATE	: 09/Jan/2025 09:44AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 09/Jan/2025 11:09AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUN	Value VITAMIN B12/C 287 IOASSAY)	Unit OBALAMIN pg/mL	Biological Reference interva 190.0 - 890.0
/ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:-		VITAMIN B12/C 287	OBALAMIN pg/mL	190.0 - 890.0
/ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS	ESCENT MICROPARTICLE IMMUN	VITAMIN B12/C 287 JOASSAY)	OBALAMIN	190.0 - 890.0
/ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:-	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 iin C	VITAMIN B12/C 287 IOASSAY)	OBALAMIN pg/mL	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 in C jen in A	VITAMIN B12/C 287 IOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	OBALAMIN pg/mL DECREASED VITAMIN E rin, Anti-convulsants, C stion	190.0 - 890.0
ATAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 iin C gen iin A ury	VITAMIN B12/C 287 IOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracept	OBALAMIN pg/mL DECREASED VITAMIN E rin, Anti-convulsants, C stion ve Harmones	190.0 - 890.0
VITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ESCENT MICROPARTICLE IMMUN ED VITAMIN B12 iin C gen iin A ury	VITAMIN B12/C 287 IOASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges	OBALAMIN pg/mL DECREASED VITAMIN E rin, Anti-convulsants, C stion ve Harmones vsis	190.0 - 890.0

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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NAME: Mr. ANUJAGE/ GENDER: 29 YRS/MALECOLLECTED BY:REFERRED BY:	PATIENT I REG. NO./1 REGISTRA	_	: 1719746 : 012501090011 : 09/Jan/2025 09:43 AM	
BARCODE NO.: 01523653CLIENT CODE.: KOS DIAGNOSTIC LABCLIENT ADDRESS: 6349/1, NICHOLSON ROAI	COLLECTI REPORTIN), AMBALA CANTT		: 09/Jan/2025 09:44AM : 09/Jan/2025 10:35AM	
Test Name	Value	Unit	Biological Reference interval	
PHYSICAL EXAMINATION	CLINICAL PATHO OUTINE & MICROSCOP	IC EXAMINA	ATION	
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR	10 PALE YELLOW	ml	PALE YELLOW	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR	
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY CHEMICAL EXAMINATION	1.02		1.002 - 1.030	
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC			
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR	Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	6		5.0 - 7.5	
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN	Negative Normal	EU/dL	NEGATIVE (-ve) 0.2 - 1.0	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION	NEGATIVE (-ve)		NEGATIVE (-ve)	
RED BLOOD CELLS (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3	



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

NAME	: Mr. ANUJ				
AGE/ GENDER	: 29 YRS/MALE		PATIENT ID	: 1719746	
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BARCODE NO.	: 01523653		COLLECTION DATE	: 09/Jan/2025 09:44AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jan/2025 10:35AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS		2-3	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-0	/ 111 1	0 - 3
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/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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