



	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F			Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. ABHISHEK AGGARWAL : 24 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (AMBALA : 01528200 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBAL	CANTT)	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1814907 : 012504020013 : 02/Apr/2025 10:24 AM : 02/Apr/2025 10:28AM : 02/Apr/2025 10:34AM
Test Name	V	alue	Unit	Biological Reference interval
RED BLOOD CELL			LLNESS PANEL: 1. DOD COUNT (CBC)	5
HAEMOGLOBIN (HB		15.6	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (1		5.03 ^H	Millions/c	emm 3.50 - 5.00
by HYDRO DYNAMIC FO PACKED CELL VOL	CUSING, ELECTRICAL IMPEDENCE UME (PCV)	47.7	%	40.0 - 54.0
	TOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	94.9	fL	80.0 - 100.0
by CALCULATED BY AU	TOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH) TOMATED HEMATOLOGY ANALYZER	31.1	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) TOMATED HEMATOLOGY ANALYZER	32.8	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	14.5	%	11.00 - 16.00
RED CELL DISTRIB	TOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	51.6	fL	35.0 - 56.0
by CALCULATED BY AU MENTZERS INDEX by CALCULATED	TOMATED HEMATOLOGY ANALYZER	18.87	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED	DEX	83.71	RATIO	BETA THALASSEMIA TRAIT: <= 74.1 IRON DEFICIENCY ANEMIA: >= 74.1
WHITE BLOOD CE	LLS (WBCS)			
		8350	/cmm	4000 - 11000
	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00





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NAME	: Mr. ABHISHEK AGGARWAL			
AGE/ GENDER	: 24 YRS/MALE	I	PATIENT ID	: 1814907
COLLECTED BY	: SURJESH	F	REG. NO./LAB NO.	: 012504020013
REFERRED BY	: CENTRAL PHOENIX CLUB (AMB	ALA CANTT)	REGISTRATION DATE	: 02/Apr/2025 10:24 AM
BARCODE NO.	:01528200		COLLECTION DATE	: 02/Apr/2025 10:28AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	REPORTING DATE	: 02/Apr/2025 10:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	JTOMATED HEMATOLOGY ANALYZER CUCOCYTE COUNT (DLC)			
NEUTROPHILS	BY SF CUBE & MICROSCOPY	66	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	25	%	20 - 40
EOSINOPHILS	BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES		8	%	2 - 12
BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1
	BY SF CUBE & MICROSCOPY DCYTES (WBC) COUNT			
ABSOLUTE NEUTR	OPHIL COUNT By SF CUBE & MICROSCOPY	5511	/cmm	2000 - 7500
ABSOLUTE LYMPH		2088	/cmm	800 - 4900
ABSOLUTE EOSING		84	/cmm	40 - 440
ABSOLUTE MONOG	CYTE COUNT	668	/cmm	80 - 880
ABSOLUTE BASOPI		0	/cmm	0 - 110
-	BY SF CUBE & MICROSCOPY DTHER PLATELET PREDICTIV	E MARKERS.		
PLATELET COUNT	(PLT) DCUSING, ELECTRICAL IMPEDENCE	357000	/cmm	150000 - 450000
PLATELETCRIT (PC		0.32	%	0.10 - 0.36
MEAN PLATELET V		9	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC) DCUSING, ELECTRICAL IMPEDENCE	71000	/cmm	30000 - 90000
-	CELL RATIO (P-LCR)	19.9	%	11.0 - 45.0
by HYDRO DYNAMIC FO				





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 Test Name
 Value
 Unit
 Biological Reference interval

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



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				1
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Apr/2025 12:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference inter
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER.	IAEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.2 102.54	% mg/dL	4.0 - 6.4 60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOCIA		
	REFERENCE GROUP		YCOSYLATED HEMOGLOGIB	(HBAIC) in %
Non diabetic Adults >= 18 years			<5.7	
Non di	At Risk (Prediabetes)		5.7 - 6.4	
			5.7 - 6.4	
A			>= 6.5	
A	t Risk (Prediabetes)		>= 6.5 Age > 19 Years	
A	t Risk (Prediabetes) iagnosing Diabetes		>= 6.5 Age > 19 Years of Therapy:	< 7.0
A D	t Risk (Prediabetes)		>= 6.5 Age > 19 Years	< 7.0 >8.0

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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.



0 5001.2000 0211							
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CLIENT ADDRESS	: 6349/1, NIO	CHOLSON ROAD, AM	BALA CANTT				
Test Name			Value	Unit	Biolo	gical Reference interva	ıl
		ERYTHROC	CYTE SEDI	MENTATION RATE	(ESR)		
ERYTHROCYTE S		ON RATE (ESR) LARY PHOTOMETRY	5	mm/1st h	nr 0 - 20)	
INTERPRETATION:	GATION BY CAPIL	LARY PHOTOMETRY					
 ESR is a non-specif immune disease, but 	ic test because does not tell th	an elevated result of e health practitioner	ten indicates exactly wher	the presence of inflammat e the inflammation is in th	ion associated wit e body or what is c	ι infection, cancer and au ausinα it.	ito-
 An ESR can be affe as C-reactive protein 	cted by other c	onditions besides inf	lammation. Fo	or this reason, the ESR is ty	pically used in con	unction with other test s	uch
3. This test may also	be used to mor	itor disease activity	and response	to therapy in both of the a	bove diseases as v	ell as some others, such	as
systemic lupus eryth CONDITION WITH LO	ematosus W ESR						
A low ESR can be see	n with conditio	ns that inhibit the no	rmal sedimer	ntation of red blood cells, s s) , and some protein abno	uch as a high red b	lood cell count	suck
as sickle cells in sick	e cell anaemia)	also lower the ESR.	i (leucocytosi	s), and some protein abile	innanties. some ci	anges in red cen snape (s	Juci
NOTE: 1. ESR and C - reactiv	e protein (C-RP)	are both markers of	inflammation	1.			
2. Generally, ESR doe	es not change as	s rapidly as does CRP	, either at the	start of inflammation or a tter marker of inflammation	s it resolves.		
If the ESR is elevat	ed, it is typically	v a result of two type	es of proteins.	alobulins or fibrinogen.			
5. Women tend to ha	ive a higher ESR tran, methyldor	, and menstruation a	nd pregnancy	can cause temporary eleva ine procainamide, theophy	itions. Iline, and vitamin /	A can increase ESR, while	
aspirin, cortisone, ar	nd quinine may	decrease it	o, pomonani	ine procentaritae, theophy			

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
	CLINIC	CAL CHEMIS	STRY/BIOCHEMIS	STRY
	CLINIC		STRY/BIOCHEMIS E FASTING (F)	STRY

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INTERPRETATION
IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:
1. A fasting plasma glucose level below 100 mg/dl is considered normal.
2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OXI		145.91	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSPH	ERUM HATE OXIDASE (ENZYMATIC)	89.55	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 on	47.44	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		80.56	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 CHOLES' by CALCULATED, SPEC		98.47	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		17.91	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF	RUM	381.37	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM ctrophotometry	3.08	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		1.7	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	1.89 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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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	MD (Pathology & Micro Chairman & Consultan		MD (I CEO & Consultant F	Pathology) Pathologist
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Test Name		Value	Unit	Biological Reference interval
	LIVER F	UNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SF	: SERUM PECTROPHOTOMETRY	0.45	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.34	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	24.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	33.6	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.72	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	95.36	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUM Phtometry	22.37	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		7.02	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.38	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.64	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE		1.66	RATIO	1.00 - 2.00

INTERPRETATION

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

Dr. Vinay Chopra

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





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Test Name	Va	lue Unit	Biological Reference interval
HEPATOCELLULAR CA	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Inc	creased)

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

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

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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTI	2	
Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTIO	ON TEST (COMPLET)	E)
UREA: SERUM		36.98	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH) LIM	0.82	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	-	0.02	ing/uL	0.40 1.40
	ROGEN (BUN): SERUM	17.28	mg/dL	7.0 - 25.0
by CALCULATED, SPE BLOOD UREA NIT	ROGEN (BUN)/CREATININE	21.07 ^H	RATIO	10.0 - 20.0
RATIO: SERUM		21.07		1010 2010
by CALCULATED, SPE		/	DATE	
UREA/CREATININ by CALCULATED, SPE		45.1	RATIO	
URIC ACID: SERUM		5.14	mg/dL	3.60 - 7.70
by URICASE - OXIDAS		0.66	/ 17	8.50 10.50
CALCIUM: SERUM by ARSENAZO III, SPE		9.66	mg/dL	8.50 - 10.60
PHOSPHOROUS: SI	ERUM	4.66	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	139.62	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.62	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		104.72	10	00.0 110.0
CHLORIDE: SERUN by ISE (ION SELECTIV		104.72	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RAT	E		
ESTIMATED GLON	MERULAR FILTERATION RATE	125.8		
(eGFR): SERUM				
by CALCULATED <u>INTERPRETATION:</u>				
	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.



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		Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P		Dr. Y CEO & Cor		thology)		
NAME	: Mr. ABH	ISHEK AGGARWAL						
AGE/ GENDER	: 24 YRS/1	MALE	J	PATIENT ID		: 1814907		
COLLECTED BY	: SURJESH		I	REG. NO./LAB NO.		: 012504020013		
REFERRED BY		L PHOENIX CLUB (AMBALA (REGISTRATION D		: 02/Apr/2025 10:2		
						•		
BARCODE NO.	:0152820			COLLECTION DAT		: 02/Apr/2025 10:2		
CLIENT CODE.		GNOSTIC LAB		REPORTING DATI	E	: 02/Apr/2025 11:4	43AM	
CLIENT ADDRESS	:6349/1,	NICHOLSON ROAD, AMBALA	A CANTT					
Test Name		Va	alue	Un	it	Biologica	al Reference interva	al
 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ai Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Nhenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an ir 	superimpos 10:1) WITH E rosis. Ind starvation e. creased ure (urea rather monemias (of inappropia 10:1) WITH II apy (accelera releases mus who develo 0: osis (acetoac acreased BUI	DECREASED BUN : n. a synthesis. than creatinine diffuses out urea is virtually absent in blo ate antidiuretic harmone) due NCREASED CREATININE: utes conversion of creatine to scle creatinine). p renal failure. etate causes false increase in V/creatinine ratio).	of extrace od). e to tubula creatinine	ellular fluid). ar secretion of urea	ì.		al ratio when dehydr	ation
 Cephalosporin the ESTIMATED GLOMERI 	rapy (interfe JLAR FILTFR/	res with creatinine measuren	nent).					
CKD STAGE		DESCRIPTION	GFR (ml	L/min/1.73m2)	ASSO	CIATED FINDINGS		
G1		Normal kidney function		>90	N	proteinuria		
G2		Kidney damage with		>90	Prese	ence of Protein,		

DESCRIPTION		ASSOCIATED TINDINOS
Normal kidney function	>90	No proteinuria
Kidney damage with	>90	Presence of Protein,
normal or high GFR		Albumin or cast in urine
Mild decrease in GFR	60 -89	
Moderate decrease in GFR	30-59	
Severe decrease in GFR	15-29	
Kidney failure	<15	
	Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR Moderate decrease in GFR Severe decrease in GFR	Kidney damage with normal or high GFR>90Mild decrease in GFR60 - 89Moderate decrease in GFR30 - 59Severe decrease in GFR15 - 29



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NAME	: Mr. ABHISHEK AGGARWAL		
AGE/ GENDER	: 24 YRS/MALE	PATIENT ID	: 1814907
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012504020013
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 02/Apr/2025 10:24 AM
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Test Name	Value	Unit	Biological Reference interval

COMMENTS: 1. 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. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012 3. 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 eGFR with Creatine CFP.

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPECT	ROPHOTOMETRY	88.1	µg/dL	59.0 - 158.0
:SERUM	ON BINDING CAPACITY (UIBC)	207.5	μg/dL	150.0 - 336.0
:SERUM	ING CAPACITY (TIBC)	295.6	μg/dL	230 - 430
	ETERY ATURATION: SERUM CTROPHOTOMETERY (FERENE)	29.8	%	15.0 - 50.0
TRANSFERRIN: SEI	RUM	209.88	mg/dL	200.0 - 350.0

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

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
	E	ENDOC	RINOLOGY	
	THYROI	ID FUNC	CTION TEST: TOTAL	
TRIIODOTHYRON	INE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	0.998	ng/mL	0.35 - 1.93
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	7.32	µgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) RASENSITIVE	1.153	µIU/mL	0.35 - 5.50
day has influence on the	<i>measured serum TSH concentrations</i> . TSH stimu lure at any level of regulation of the hypothal	ulates the pr	oduction and secretion of the m	m. The variation is of the order of 50%.Hence time of th etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

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

LIMITATIONS:-

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

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





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Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 - 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS 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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AGE/ GENDER	: 24 YRS/MALE	PATIENT ID	: 1814907
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	г	
Test Name	Value	Unit	Biological Reference interval
		FAMINS	
	VITAMIN D/25 H	YDROXY VITAMIN E)3
,	(DROXY VITAMIN D3): SERUM 7.9 ^L escence immunoassay)	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

INTERPRETATION:

DEFICIENT:	< 20	ng/mL		
INSUFFICIENT:	21 - 29	ng/mL		
PREFFERED RANGE:	30 - 100	ng/mL		
INTOXICATION:	> 100	ng/mL		

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in

severe hypercalcemia and hyperphophatemia. CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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NAME	: Mr. ABHISHEK AGGARWAL				
AGE/ GENDER	: 24 YRS/MALE	PATIE	T ID	: 1814907	
COLLECTED BY	: SURJESH		D./LAB NO.	: 012504020013	
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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		VITAMIN B12/COI	BALAMIN		
	ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNOAS	SSAY) 167^L	pg/mL	190.0 - 890.0	
NTERPRETATION:-	ED VITAMIN B12		ECREASED VITAMIN	1012	
1.Ingestion of Vitam		1.Pregnancy	ECREASED VITAIVIIN		
2.Ingestion of Estrog			, Anti-convulsants,	Colchicine	
3.Ingestion of Vitam		2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ethanol Igestion			
4.Hepatocellular in	jury	4. Contraceptive	Harmones		
5.Myeloproliferativ	e disorder	5.Haemodialysis			
6.Uremia	amin) is necessary for hematopo	6. Multiple Mye			
3.The body uses its vi excreted. 4.Vitamin B12 deficie lleal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalo 7.Follow-up testing for NOTE: A normal serun deficiency at the cellu	ncy may be due to lack of IF secr intestinal diseases). ency frequently causes macrocyti coordination, and affective beha s without macrocytic anemia. nic acid and homocysteine levels or antibodies to intrinsic factor (I n concentration of vitamin B12 do	ally, reabsorbing vitamin etion by gastric mucosa (c anemia, glossitis, perip avioral changes. These m are also elevated in vitar F) is recommended to id oes not rule out tissue de clinical symptoms suage	B12 from the ileum eg, gastrectomy, ga heral neuropathy, y anifestations may c nin B12 deficiency entify this potentia ficiency of vitamin	and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) Chairman & Consultant Pathologist CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval	

Dr. Vinay Chopra MD (Pathology & Microbiology)

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC EXAMINATION

PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	>=1.030		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
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.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
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	NEGATIVE (-ve)		NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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



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NANGE





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

ADDITCHEV ACCADWAT

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

NAME	: Mr. ABHISHEK AGGARWAL				
AGE/ GENDER	: 24 YRS/MALE PATIENT ID		ID	: 1814907 : 012504020013 : 02/Apr/2025 10:24 AM	
COLLECTED BY	: SURJESH	REG. NO./LAB NO. IX CLUB (AMBALA CANTT) REGISTRATION DATE COLLECTION DATE			
REFERRED BY	: CENTRAL PHOENIX CLUB (AMI				
BARCODE NO.	: 01528200			: 02/Apr/2025 10:28AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 02/Apr/2025 12:08PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELL by MICROSCOPY ON C	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	5-7	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS	2-4	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFLIGED LIRINARY SEDIMENT			

*** End Of Report ***





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