

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant			(Pathology)	
NAME	: Mr. AKHIL GUPTA				
AGE/ GENDER	: 32 YRS/MALE		PATIENT ID	: 1810642	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503290021	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA	A CANTT)	REGISTRATION DATE	: 29/Mar/2025 09	42 AM
BARCODE NO.	: 01527967		COLLECTION DATE	: 29/Mar/2025 09	54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 10	30AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT			
Test Name		Value	Unit	Biologic	al Reference interval
	SWASTH	VA WF	LLNESS PANEL: 1	15	
			OOD COUNT (CBC)		
RED BLOOD CELI	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HI	3)	14.1	gm/dL	12.0 - 1	7.0
RED BLOOD CELL	(RBC) COUNT DCUSING, ELECTRICAL IMPEDENCE	5.05 ^H	Millions	/cmm 3.50 - 5	.00
PACKED CELL VOL		43.4	%	40.0 - 5	4.0
MEAN CORPUSCUL	AR VOLUME (MCV)	86	fL	80.0 - 1	00.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	27.8	pg	27.0 - 3	4.0
MEAN CORPUSCUI	AR HEMOGLOBIN CONC. (MCHC) 32.4	g/dL	32.0 - 3	6.0
RED CELL DISTRIE	BUTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	13.9	%	11.00 -	16.00
RED CELL DISTRIE	BUTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	45	fL	35.0 - 5	6.0
MENTZERS INDEX by CALCULATED		17.03	RATIO	BETA 7 13.0	HALASSEMIA TRAIT:
				IRON E >13.0	EFICIENCY ANEMIA:
GREEN & KING INI	DEX	72.91	RATIO	BETA 1	HALASSEMIA TRAIT:
S OF COLATED				<= 74.1 IRON D >= 74.1	EFICIENCY ANEMIA:
WHITE BLOOD CH	ELLS (WBCS)				
FOTAL LEUCOCYT	Έ COUNT (TLC) by sf cube & microscopy	7760	/cmm	4000 - 1	1000
NUCLEATED RED I	BLOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 2	0.00
by AUTOMATED 6 PAR					





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

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







	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interva
•	JTOMATED HEMATOLOGY ANALYZ	ER		
<u>DIFFERENTIAL LE</u>	<u>UCOCYTE COUNT (DLC)</u>			
NEUTROPHILS		55	%	50 - 70
-	BY SF CUBE & MICROSCOPY	22	0/	20 10
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	32	%	20 - 40
EOSINOPHILS		7 H	%	1 - 6
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	,		
MONOCYTES		6	%	2 - 12
	BY SF CUBE & MICROSCOPY	0	0/	0 1
BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1
•	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR		4268	lamm	2000 - 7500
	BY SF CUBE & MICROSCOPY	4208	/cmm	2000 - 7300
ABSOLUTE LYMPH		2483	/cmm	800 - 4900
	BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINC		543 ^H	/cmm	40 - 440
BY FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	466	/cmm	80 - 880
	BY SF CUBE & MICROSCOPY	400	/Cillin	80 - 880
PLATELETS AND C	THER PLATELET PREDICT	TIVE MARKERS.		
PLATELET COUNT		352000	/cmm	150000 - 450000
	CUSING, ELECTRICAL IMPEDENCE		, chini	120000 120000
PLATELETCRIT (PO		0.37 ^H	%	0.10 - 0.36
	CUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET V	× /	11	fL	6.50 - 12.0
-	CUSING, ELECTRICAL IMPEDENCE		/cmm	30000 - 90000
	CUSING, ELECTRICAL IMPEDENCE	104000 ^H	/emm	50000 70000
	CELL RATIO (P-LCR)	29.4	%	11.0 - 45.0
	CUSING, ELECTRICAL IMPEDENCE			
PLATELET DISTRI	BUTION WIDTH (PDW)	16	%	15.0 - 17.0
	CUSING, ELECTRICAL IMPEDENCE			



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 0171-2643898, +91 99910 43898
 care@koshealthcare.com







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Test Name	Value	Unit	Biological Reference interval





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BARCODE NO.	: 01527967	,	COLLECTION DATE	: 29/Mar/2025 09:54AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 03:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	-			
Test Name		Value	Unit	Biological Reference inte	erval
			EMOGLOBIN (HBA		
WHOLE BLOOD	AEMOGLOBIN (HbA1c):	5.5	%	4.0 - 6.4	
ESTIMATED AVERA	AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	111.15	mg/dL	60.00 - 140.00	
NTERPRETATION:	AS PER AMERICAN I	DIABETES ASSOCIA			
	REFERENCE GROUP		COSYLATED HEMOGLOGIB	(HBAIC) in %	
Non dia	abetic Adults >= 18 years	1	<5.7		
	t Risk (Prediabetes)		5.7 – 6.4		
D	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
			f Therapy:	< 7.0	
Therapeut	ic goals for glycemic control	Actions	Suggested:	>8.0	
			Age < 19 Years		
			f 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 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDI	MENTATION RATE	(ESR)
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see polycythaemia), sig as sickle cells in sick NOTE: 1. ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dex	does not tell the health practition ected by other conditions besides in be used to monitor disease activity ematosus W ESR In with conditions that inhibit the r hificantly high white blood cell cou le cell anaemia) also lower the ESF e protein (C-RP) are both markers of es not change as rapidly as does CR I by as many other factors as is ESR, ed, it is typically a result of two typication we a higher ESR, and menstruation	er exactly where iflammation. Fo y and response to normal sedimen nt (leucocytosis cof inflammation P, either at the making it a bet bes of proteins, and pregnancy	e the inflammation is in the or this reason, the ESR is typ to therapy in both of the a tation of red blood cells, su s), and some protein abno start of inflammation or as ter marker of inflammatior globulins or fibrinogen. can cause temporary eleva	pically 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 s it resolves.
aspirin, cortisone, ai				

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 12:26PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTI		
Fest Name		Value	Unit	Biological Reference interval
,	E - PEROXIDASE (GOD-POD)			PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
ΝΤΕΡΟΡΕΤΔΤΙΩΝ				
. A fasting plasma g	HAMERICAN DIABETES ASSOCIA glucose level below 100 mg/dl is	considered norm	al.	
A fasting plasma g A fasting plasma g	Iucose level below 100 mg/dl is Iucose level between 100 - 125	considered norm mg/dl is consider	al. ed as glucose intolerant or	prediabetic. A fasting and post-prandial blood
A fasting plasma g A fasting plasma g A fasting plasma g est (after consumpt A fasting plasma g	plucose level below 100 mg/dl is plucose level between 100 - 125 ion of 75 gms of glucose) is reco plucose level of above 125 mg/dl	considered norm mg/dl is consider mmended for all s is highly suggest	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a
ACCORDANCE WIT A fasting plasma g A fasting plasma g est (after consumpt A fasting plasma g	Jlucose level below 100 mg/dl is Jlucose level between 100 - 125 ion of 75 gms of glucose) is reco	considered norm mg/dl is consider mmended for all s is highly suggest	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a
Accordance WIT A fasting plasma g A fasting plasma g st (after consumpt A fasting plasma g	plucose level below 100 mg/dl is plucose level between 100 - 125 ion of 75 gms of glucose) is reco plucose level of above 125 mg/dl	considered norm mg/dl is consider mmended for all s is highly suggest	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a
Accordance WIT A fasting plasma g A fasting plasma g st (after consumpt A fasting plasma g	plucose level below 100 mg/dl is plucose level between 100 - 125 ion of 75 gms of glucose) is reco plucose level of above 125 mg/dl	considered norm mg/dl is consider mmended for all s is highly suggest	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a
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A fasting plasma g A fasting plasma g A fasting plasma g est (after consumpt A fasting plasma g	plucose level below 100 mg/dl is plucose level between 100 - 125 ion of 75 gms of glucose) is reco plucose level of above 125 mg/dl	considered norm mg/dl is consider mmended for all s is highly suggest	al. ed as glucose intolerant or such patients. ve of diabetic state. A repe	at post-prandial is strongly recommended for a

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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		207.17 ^H	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)	244.73 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERC by SELECTIVE INHIBITI	UL (DIRECT): SERUM on	34.89	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		123.33	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		172.28 ^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		48.95 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEA	RUM	659.07	mg/dL	350.00 - 700.00
•	L RATIO: SERUM	5.94 ^H	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		3.53 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/I by CALCULATED, SPE	HDL RATIO: SERUM	7.01 ^H	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.

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

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





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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTIO	N TEST (COMPLETE))
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.45	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	Л RIDOXAL PHOSPHATE	33.1	U/L	7.00 - 45.00
SGPT/ALT: SERUN by IFCC, WITHOUT PY	Í RIDOXAL PHOSPHATE	73.2 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: S		0.45	RATIO	0.00 - 46.00
ALKALINE PHOSP by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	113.05	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERU PHTOMETRY	M 34.02	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		7.87	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.31	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	Ν	3.56 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	JM	1.21	RATIO	1.00 - 2.00

INTERPRETATION

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

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

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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Page 9 of 20





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HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	

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

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

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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



Page 10 of 20





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	n Chopra (Pathology) Pathologist	
NAME	: Mr. AKHIL GUPTA			
AGE/ GENDER	: 32 YRS/MALE	S/MALE		: 1810642
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012503290021
REFERRED BY	: CENTRAL PHOENIX CLUB (AM	BALA CANTT)	REGISTRATION DATE	: 29/Mar/2025 09:42 AM
BARCODE NO.	:01527967		COLLECTION DATE	: 29/Mar/2025 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Mar/2025 12:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interv
	KIDNE	Y FUNCTIO	ON TEST (COMPLET)	E)
UREA: SERUM		35.09	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU		1.01	mg/dL	0.40 - 1.40
by ENZYMATIC, SPECT BLOOD LIREA NITR	ROGEN (BUN): SERUM	16.4	mg/dL	7.0 - 25.0
by CALCULATED, SPEC		10.1	ing all	1.0 25.0
	ROGEN (BUN)/CREATININE	16.24	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPEC	CTROPHOTOMETRY			
UREA/CREATININE		34.74	RATIO	
by CALCULATED, SPEC				
URIC ACID: SERUM		9.02 ^H	mg/dL	3.60 - 7.70
by URICASE - OXIDASE CALCIUM: SERUM	E PEROXIDASE	9.31	mg/dL	8.50 - 10.60
by ARSENAZO III, SPEC	CTROPHOTOMETRY	7.51	IIIg/uL	8.50 - 10.00
PHOSPHOROUS: SE	-	4.42	mg/dL	2.30 - 4.70
	ATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE		143.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.48	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE				
CHLORIDE: SERUM		107.63	mmol/L	90.0 - 110.0
	E ELECTRODE) MERULAR FILTERATION RAT	ГЕ		
	IERULAR FILTERATION RATE			
(eGFR): SERUM	ILRULAR FILTERATION KATE	101.5		
by CALCULATED				
INTERPRETATION:	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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 care@koshealthcare.com

 www.koshealthcare.com
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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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NAME	: Mr. AKHIL	GUPTA				
AGE/ GENDER	: 32 YRS/MA	LE	I	ATIENT ID	: 1810642	
COLLECTED BY	: SURJESH		1	REG. NO./LAB NO.	:012503290021	
REFERRED BY	: CENTRAL P	HOENIX CLUB (AMBA	,		FE : 29/Mar/2025 09:4	IZ AM
BARCODE NO.	:01527967		(COLLECTION DATE	: 29/Mar/2025 09:5	54AM
CLIENT CODE.	: KOS DIAGN	OSTIC LAB	I	REPORTING DATE	: 29/Mar/2025 12:2	28PM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMB	ALA CANTT			
Test Name			Value	Unit	Biologica	l Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar	osis. Id starvation.					
6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r	creased urea s urea rather th monemias (ure f inappropiate 0:1) WITH INCI py (accelerates eleases muscle	an creatinine diffuses (ea is virtually absent in antidiuretic harmone) REASED CREATININE: s conversion of creatin e creatinine).	n blood). I due to tubula	r secretion of urea.		
4. Other causes of de 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 s urea rather th monemias (ure f inappropiate 0:1) WITH INCI py (accelerates eleases muscle who develop r	an creatinine diffuses (ea is virtually absent in antidiuretic harmone) REASED CREATININE: s conversion of creating e creatinine). enal failure.	i blood). due to tubula e to creatinine	r secretion of urea.		
 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (7. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido 	creased urea s urea rather th monemias (ure f inappropiate 0:1) WITH INCI py (accelerates eleases muscle who develop r sis (acetoaceta	an creatinine diffuses (ea is virtually absent in antidiuretic harmone) REASED CREATININE: s conversion of creatin e creatinine). enal failure. ite causes false increas	i blood). due to tubula e to creatinine	r secretion of urea.	odologies,resulting in norma	al ratio when dehydrati
 4. Other causes of de 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 1. Diabetic ketoacido should produce an in 2. Cephalosporin the 	creased urea s urea rather th monemias (ure f inappropiate 0:1) WITH INCI py (accelerates eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes	an creatinine diffuses (ea is virtually absent in antidiuretic harmone) REASED CREATININE: s conversion of creatin e creatinine). enal failure. tte causes false increas reatinine ratio). with creatinine measu	i blood). due to tubula e to creatinine se in creatinin	r secretion of urea.	odologies,resulting in norma	al ratio when dehydrati
 4. Other causes of de 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 1. Diabetic ketoacido should produce an in 	creased urea s urea rather th monemias (ure f inappropiate 0:1) WITH INCI py (accelerates eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes	an creatinine diffuses (ea is virtually absent in antidiuretic harmone) REASED CREATININE: s conversion of creatin e creatinine). enal failure. tte causes false increas reatinine ratio). with creatinine measu	a blood). due to tubula e to creatinine se in creatinin urement).	r secretion of urea.	odologies,resulting in norma	al ratio when dehydrati

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	





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

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









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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

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

ADVICE:

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



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Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	126.52	μg/dL	59.0 - 158.0
	ON BINDING CAPACITY (UIBC)	199.19	µg/dL	150.0 - 336.0
•	DING CAPACITY (TIBC)	325.71	μg/dL	230 - 430
%TRANSFERRIN S	ATURATION: SERUM	38.84	%	15.0 - 50.0
TRANSFERRIN: SE	RUM	231.25	mg/dL	200.0 - 350.0
INTERPRETATION:-			IRON DEFICIENCY ANEMI	Δ ΤΗΔΙ ASSEMIA α/β ΤΡΑΙΤ

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

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





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Test Name	Value	Unit	Biological Reference interval
	ENDO	CRINOLOGY	
	THYROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (T3): SERUM 1.114 IESCENT MICROPARTICLE IMMUNOASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM 8.35 IESCENT MICROPARTICLE IMMUNOASSAY)	µgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SERUM 1.956 IESCENT MICROPARTICLE IMMUNOASSAY)	µIU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE		
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak levels between 2-4 a.m measured serum TSH concentrations. TSH stimulates the p lure at any level of regulation of the hypothalamic-pituit rroidism) of T4 and/or T3.	production and secretion of the m	netabolically active hormones, thyroxine (T4)and
CLINICAL CONDITION	T3	T4	TSH

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	(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

Test Name		Value	Unit	t	Biological Reference interva	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	IMENDATIONS OF TSH LE	EVELS DURING PREC	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 Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
	VITA	AMIN D/25 HY	ZDROXY VITAMIN I	03
	(DROXY VITAMIN D3): SER escence immunoassay)	UM 20.6 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:	CIENT:	< 20		2/ml
		< 20		g/mL

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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Test Name		Value	Unit	Biological Reference interval			
		VITAMIN B1	12/COBALAMIN				
VITAMIN B12/COB	ALAMIN: SERUM	230	pg/mL	190.0 - 890.0			
	ESCENT MICROPARTICLE IMM		18				
INTERPRETATION:-							
INCREAS 1.Ingestion of Vitam	SED VITAMIN B12	1.Pregna	DECREASED VITAMI	V B12			
2.Ingestion of Estro			S:Aspirin, Anti-convulsants	Colchicine			
3.Ingestion of Vitam			ol Igestion				
4.Hepatocellular in			aceptive Harmones				
5.Myeloproliferativ	e disorder		5.Haemodialysis 6. Multiple Myeloma				
<u>6.Uremia</u> 1 Vitamin B12 (cobal	amin) is necessary for hem						
2.In humans, it is obt	ained only from animal pro	oteins and requires int	rinsic factor (IF) for absorp				
3.The body uses its v excreted.	itamin B12 stores very ecor	omically, reabsorbing	vitamin B12 from the ileur	n and returning it to the liver; very little is			
	ency may be due to lack of I	F secretion by gastric r	nucosa (eg, gastrectomy, c	astric atrophy) or intestinal malabsorption (eq			
ileal resection, small							
5. Vitamin B12 deficie proprioception, poor	coordination, and affective	e behavioral changes. T	is, peripheral neuropathy, These manifestations may	weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have			
the neurologic defect	s without macrocytic anem	ia.		5			
	nic acid and homocysteine			states. al cause of vitamin B12 malabsorption.			
				B12. The most sensitive test for vitamin B12			
deficiency at the cell	ular level is the assay for M	MA. If clinical sympton		surement of MMA and homocysteine should b			
considered, even il se	erum vitamin B12 concentra	ations are normal.					

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Ch MD (Pathology & Chairman & Cons				(Pathology)	
NAME	: Mr. AKHIL GUPTA				
AGE/ GENDER	: 32 YRS/MALE	PA	ATIENT ID	: 1810642	
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012503290021	
REFERRED BY	: CENTRAL PHOENIX CLUB (AI	MBALA CANTT) R I	EGISTRATION DATE	: 29/Mar/2025 09:42 AM	
BARCODE NO.	: 01527967	COLLECTION DATE REPORTING DATE		: 29/Mar/2025 09:54AM : 29/Mar/2025 11:22AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB				
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A				
Test Name		Value	Unit	Biological Reference interval	
	URINE ROU	CLINICAL P. TINE & MICR	OSCOPIC EXAMI	NATION	
PHYSICAL EXAM		10			
QUANTITY RECIE	VED CTANCE SPECTROPHOTOMETRY	10	ml		
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELL	OW	PALE YELLOW	
TRANSPARANCY	TANCE SPECIFICITIONETRY	CLEAR		CLEAR	
•	TANCE SPECTROPHOTOMETRY	1.000		1 000 1 000	
SPECIFIC GRAVIT	Y CTANCE SPECTROPHOTOMETRY	>=1.030		1.002 - 1.030	
CHEMICAL EXAN					
REACTION		ACIDIC			
-	TANCE SPECTROPHOTOMETRY				
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR		Negative		NEGATIVE (-ve)	
•	TANCE SPECTROPHOTOMETRY			5 0 7 5	
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5	
BILIRUBIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
NITRITE		Negative		NEGATIVE (-ve)	
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0	
		i torinar	EC/uE	0.2 1.0	

Negative

NEGATIVE (-ve)

NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION

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

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 care@koshealthcare.com



NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT







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

NAME	: Mr. AKHIL GUPTA					
AGE/ GENDER	: 32 YRS/MALE		PATIENT ID		: 1810642	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.		: 012503290021	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)		REGISTRATION DATE		: 29/Mar/2025 09:42 AM	
BARCODE NO.	: 01527967		COLLECTION DATE : 29/Mar/2025 09:54A		: 29/Mar/2025 09:54AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE : 29		: 29/Mar/2025 11:22AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN					
Test Name		Value		Unit	Biological Reference interval	
RED BLOOD CELL	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATI	VE (-ve)	/HPF	0 - 3	
PUS CELLS		1-2		/HPF	0 - 5	

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-1	/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 ***





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

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

