

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr		Dr. Yugan MD	n Chopra D (Pathology)
	Chairman & Consultar			
NAME	: Mr. AVTAR SINGH			
AGE/ GENDER	: 53 YRS/MALE		PATIENT ID	: 1714277
COLLECTED BY	:		REG. NO./LAB NO.	: 012501020049
REFERRED BY	:		REGISTRATION DATE	: 02/Jan/2025 03:27 PM
BARCODE NO.	: 01523355		COLLECTION DATE	: 02/Jan/2025 03:46PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Jan/2025 03:45PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.	2
	COMP	PLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		14.5	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (R	RBC) COUNT	4.77	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLU		45	%	40.0 - 54.0
MEAN CORPUSCULA		94.2	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	30.3	pg	27.0 - 34.0
by CALCULATED BY AU	R HEMOGLOBIN CONC. (MCHC)	32.1	g/dL	32.0 - 36.0
	TION WIDTH (RDW-CV)	13.3	%	11.00 - 16.00
RED CELL DISTRIBU	TION WIDTH (RDW-SD)	46.9	fL	35.0 - 56.0
MENTZERS INDEX		19.75	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDI by CALCULATED	EX	26.18	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL				
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	6730	/cmm	4000 - 11000
NUCLEATED RED BI	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED BI	t hematology analyzer 200D CELLS (nRBCS) % itomated hematology analyzer	NIL	%	< 10 %





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AVTAR SINGH AGE/ GENDER : 53 YRS/MALE **PATIENT ID** :1714277 **COLLECTED BY** :012501020049 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 02/Jan/2025 03:27 PM **BARCODE NO.** :01523355 **COLLECTION DATE** :02/Jan/202503:46PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Jan/202503:45PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 70 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 21% 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2 EOSINOPHILS % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 7 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4711 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1413 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 135 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 471 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 223000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.28 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12^H fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 98000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 43.9 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.7 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
ERYTHROCYTE SE	DIMENTATION RATE (ESR)	20CYTE SEDIMENTA 12	mm/1st	
by RED CELL AGGRE	DIMENTATION RATE (ESR) gation by capillary photometr	12 2Y	mm/1st	hr 0 - 20
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR fic test because an elevated resul does not tell the health practitio ected by other conditions besides be used to monitor disease activi ematosus	12 t often indicates the prese ner exactly where the infla inflammation. For this rea	mm/1st ence of inflammat ammation is in th ison, the ESR is ty	hr 0 - 20
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifi immune 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), sign as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR dog 3. CRP is not affected	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR fic test because an elevated resul does not tell the health practitio ected by other conditions besides be used to monitor disease activi ematosus W ESR m with conditions that inhibit the	12 t often indicates the prese iner exactly where the infla inflammation. For this rea ity and response to therap e normal sedimentation of bunt (leucocytosis), and so SR. s of inflammation. CRP, either at the start of i R, making it a better marke	mm/1st ence of inflammat ammation is in th ison, the ESR is ty by in both of the a red blood cells, s ome protein abno	hr 0 - 20 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 uch as a high red blood cell count rmalities. Some changes in red cell shape (such





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MBBS, MD (PATHOLOGY)







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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTE	RY/BIOCHEMIST	'RY
		GLUCOSE FA	ASTING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD		I OKIING DAIL	. 02/ Jail/ 2020 04.211 W
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O>		320.72 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM HATE OXIDASE (ENZYMATIC)	211.38 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM	58.83	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		219.61 ^H	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, spe		261.89 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE		42.28	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SEF by CALCULATED, SPE		852.82 ^H	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE		5.45 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		3.73 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.59	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

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

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





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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN TOTAL		FUNCTIO 0.62	N TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.02	ilig/ uL	ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.16	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.46	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	52 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	62.7 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	0.83	RATIO	0.00 - 46.00
ALKALINE PHOSPI		105.41	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	46.18	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.5	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.43	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.07	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.44	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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

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

INCREASED:

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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INTERPRETATION





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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 SIGNIFICANCE:	

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



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Test Name		Value	Unit	Biological Reference in	iterva
	KIDNI	EY FUNCTIO)N TEST (COMPLETE)		
UREA: SERUM	NATE DEHYDROGENASE (GLDH)	28.48	mg/dL	10.00 - 50.00	
CREATININE: SER		1	mg/dL	0.40 - 1.40	
BLOOD UREA NITH	ROGEN (BUN): SERUM	13.31	mg/dL	7.0 - 25.0	
BLOOD UREA NITI RATIO: SERUM	ROGEN (BUN)/CREATININE	13.31	RATIO	10.0 - 20.0	
UREA/CREATININ		28.48	RATIO		
URIC ACID: SERUN	1	3.9	mg/dL	3.60 - 7.70	
CALCIUM: SERUM	ECTROPHOTOMETRY	10.62 ^H	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SI by PHOSPHOMOLYBI		3.67	mg/dL	2.30 - 4.70	
ELECTROLYTES SODIUM: SERUM		137.7	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV POTASSIUM: SERU	М	4.45	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIN CHLORIDE: SERUM by ISE (ION SELECTIN	1	103.28	mmol/L	90.0 - 110.0	
	MERULAR FILTERATION RATE				
(eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	90			
INTERPRETATION: To differentiate betw	veen 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 Name			Value	Uni	it	Bio	logical	Referen	ce inter	val
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	ass (subnormal ci tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispro superimposed on	eatinine productic ocorticoids) ED CREATININE LEN oportionately more renal disease.	ELS:	ne) (e.g. obstructive	e uropathy	<i>)</i> .				et,
8. Reduced muscle m 9. Certain drugs (e.g. I NCREASED RATIO (>2 1. Postrenal azotemia	(e.g. ureter colos ass (subnormal cr tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispro superimposed on 0:1) WITH DECRE osis. Id starvation. creased urea synt urea rather than monemias (urea i f inappropiate an 0:1) WITH INCRE oy (accelerates co eleases muscle cr who develop rena sis (acetoacetate creased BUN/crea apy (interferes w LAR FILTERATION Norm	eatinine productic bocorticoids) ED CREATININE LEV oportionately more renal disease. ASED BUN : hesis. creatinine diffuses s virtually absent in tidiuretic harmone SED CREATININE: niversion of creatin eatinine). If failure. causes false increatin th creatinine meas RATE: DESCRIPTION al kidney function ney damage with	TELS: than creatinin out of extrace blood).) due to tubula ne to creatinine se in creatinin urement).	ellular fluid). ar secretion of urea e).	hodologie ASSO N Prese	es,resulting in CIATED FINDI o proteinuria ence of Prote	NGS a in ,	ratio wh	ien dehyi	
A. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<1 Nhenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2	(e.g. ureter colos ass (subnormal cr tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispro superimposed on 0:1) WITH DECRE osis. Id starvation. 2: creased urea synt urea rather than monemias (urea i f inappropiate an 0:1) WITH INCRE oy (accelerates co eleases muscle cr who develop rena sis (acetoacetate creased BUN/crea apy (interferes w LAR FILTERATION Norm Kid norm	eatinine productic cocrticoids) ED CREATININE LEV oportionately more renal disease. ASED BUN : hesis. creatinine diffuses s virtually absent in tidiuretic harmone SED CREATININE: niversion of creatin eatinine). Il failure. causes false increatin th creatinine meas RATE: DESCRIPTION al kidney function ney damage with mal or high GFR	TELS: than creatinin out of extrace blood).) due to tubula ne to creatinine se in creatinin urement).	ellular fluid). ar secretion of urea e). ee with certain meth L/min/1.73m2) >90 >90	hodologie ASSO N Prese	es,resulting in CIATED FINDI	NGS a in ,	ratio wh	ien dehyi	
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<1 Nhenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u> <u>G3a</u>	(e.g. ureter colos ass (subnormal cr tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispro superimposed on 0:1) WITH DECRE osis. Id starvation. creased urea synt urea rather than monemias (urea i f inappropiate an 0:1) WITH INCRE oy (accelerates co eleases muscle cr who develop rena sis (acetoacetate creased BUN/crea apy (interferes w LAR FILTERATION Norm Kid norm	eatinine productic bocorticoids) ED CREATININE LEV oportionately more renal disease. ASED BUN : hesis. creatinine diffuses s virtually absent in tidiuretic harmone SED CREATININE: niversion of creatin eatinine). Il failure. causes false increatin th creatinine meas RATE: DESCRIPTION ial kidney function ney damage with mal or high GFR	VELS: than creatinin out of extrace blood).) due to tubula ne to creatinine se in creatinin urement).	ellular fluid). ar secretion of urea e). e with certain meth L/min/1.73m2) >90 >90 60 -89	hodologie ASSO N Prese	es,resulting in CIATED FINDI o proteinuria ence of Prote	NGS a in ,	ratio wh	ien dehyi	
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	am Chopra 1D (Pathology) ant Pathologist
NAME	: Mr. AVTAR SINGH		
AGE/ GENDER	: 53 YRS/MALE	PATIENT ID	: 1714277
COLLECTED BY	:	REG. NO./LAB NO.	: 012501020049
REFERRED BY	:	REGISTRATION DATI	E : 02/Jan/2025 03:27 PM
BARCODE NO.	: 01523355	COLLECTION DATE	: 02/Jan/2025 03:46PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Jan/2025 04:21PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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	Dr. Vinay Chopra Dr. Yug MD (Pathology & Microbiology) N Chairman & Consultant Pathologist CEO & Consult			athology)
NAME	: Mr. AVTAR SINGH			
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Test Name		Value	Unit	Biological Reference interva
		ENDOCRIN	DLOGY	
	THYR	OID FUNCTION	TEST: TOTAL	
TRIIODOTHYRONIN by CMIA (CHEMILUMIN	IE (T3): SERUM escent microparticle immunoassay	1.12	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	ERUM escent microparticle immunoassay	6.97	µgm/dL	4.87 - 12.60
	TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY	1.161	µIU/mL	0.35 - 5.50
3rd GENERATION, ULTH INTERPRETATION:	ASENSITIVE			
TSH levels are subject to c day has influence on the n triiodothyronine (T3).Fail		mulates the productio	n and secretion of the meta	The variation is of the order of 50%.Hence time of a bolically active hormones, thyroxine (T4)and nderproduction (hypothyroidism) or
overproduction(inypertiny				

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.

TRIIODOTHYRONINE (T3)		THYROX	(INE (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	





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Yugam Chopra MD (Pathology) onsultant Pathologist
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Test Name		Value U	nit Biological Reference interval

	•					
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	1
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	MENDATIONS OF TSH LE	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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam Chopra MD (Pathology) gist CEO & Consultant Pathologist				
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 02/Jan/2025 05:12PM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
		CLINICAL PA	ATHOLOGY				
	URINFR		OSCOPIC EXAMINA	ATION			
PHYSICAL EXAMI		COTINE & MICH	USUUI U EARIMIN	III VII			
QUANTITY RECIEV		10	ml				
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY						
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLO	JW	PALE YELLOW			
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR			
SPECIFIC GRAVITY		1.02		1.002 - 1.030			
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY						
REACTION		ACIDIC					
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY						
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)			
SUGAR		Negative		NEGATIVE (-ve)			
pH	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5			
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY						
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)			
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)			
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0			
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)			
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	U U					
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)			
ASCORBIC ACID		NEGATIVE ((-ve)	NEGATIVE (-ve)			
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY						
RED BLOOD CELLS		NEGATIVE ((-ve) /HPF	0 - 3			
		·					

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)



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

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Test Name	Value	Unit	Biological Reference interval

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/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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