



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		Pathology)
NAME	: Mr. ASHWANI KOHLI			
AGE/ GENDER	: 59 YRS/MALE		PATIENT ID	: 1704105
COLLECTED BY	:		REG. NO./LAB NO.	: 012412200021
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBAI	LA CANTT)		: 20/Dec/2024 10:48 AM
BARCODE NO.	: 01522717		COLLECTION DATE	: 20/Dec/2024 10:51AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	REPORTING DATE	: 20/Dec/2024 11:47AM
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WE	LLNESS PANEL: 1.2	
	COMP	LETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES		, , ,	
HAEMOGLOBIN (H	B)	10.9 ^L	gm/dL	12.0 - 17.0
RED BLOOD CELL ((RBC) COUNT	5.41 ^H	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) Automated hematology analyzer	36.8 ^L	%	40.0 - 54.0
	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	68.1 ^L	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	20.1 ^L	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	29.5 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	18.4 ^H	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	46.8	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		12.59	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by CALCULATED		23.11	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
NHITE BLOOD CE				
FOTAL LEUCOCYTE by FLOW CYTOMETR	E COUNT (TLC) y by sf cube & microscopy	10090	/cmm	4000 - 11000
NUCLEATED RED E	BLOOD CELLS (nRBCS) rt hematology analyzer	NIL		0.00 - 20.00
by AUTOMATED 6 PAR				





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult		icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
<u>DIFFERENTIAL LE</u>	UCOCYTE COUNT (DLC)			
NEUTROPHILS		71 ^H	%	50 - 70
by FLOW CYTOMETR' LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	21	%	20 - 40
	Y BY SF CUBE & MICROSCOPY	21	70	20 - 40
EOSINOPHILS		3	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	5	70	$\mathcal{L} = 1\mathcal{L}$
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY ICYTES (WBC) COUNT			
ABSOLUTE NEUTR		7164	/cmm	2000 - 7500
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	/104	/ chilli	2000 1000
ABSOLUTE LYMPH		2119	/cmm	800 - 4900
ABSOLUTE EOSINC	Y BY SF CUBE & MICROSCOPY OPHIL COUNT	303	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY		/ chilli	10 110
ABSOLUTE MONOC		504	/cmm	80 - 880
ABSOLUTE BASOP	Y BY SF CUBE & MICROSCOPY HIL COUNT	0	/cmm	0 - 110
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY		, on the	0 110
	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT		252000	/cmm	150000 - 450000
PLATELETCRIT (PC	FOCUSING, ELECTRICAL IMPEDENCE	0.32	%	0.10 - 0.36
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET V	OLUME (MPV)	12 ^H	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	119000 ^H	/cmm	30000 - 90000
PLATELET LARGE	CELL RATIO (P-LCR)	47.1 ^H	%	11.0 - 45.0
	OCUSING, ELECTRICAL IMPEDENCE	15.8	%	15.0 - 17.0
	SUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	13.8	70	13.0 - 17.0
NOTE, TEST CONDL				

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



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		hopra & Microbiology) Insultant Pathologist	Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist	
AME	: Mr. ASHWANI KOHLI			
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est Name		Value	Unit	Biological Reference interval
by RED CELL AGGRE NTERPRETATION: . ESR is a non-specif mmune disease, but . An ESR can be affe s C-reactive protein	does not tell the health practiti cted by other conditions beside be used to monitor disease acti	ult often indicates the pre ioner exactly where the ir es inflammation. For this r	nflammation is in the reason, the ESR is typi	on associated with infection, cancer and auto-





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Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMIS	TRY/BIOCHEMIST	'RY
		GLUCOSE	FASTING (F)	
	G (F): PLASMA	110.4 ^H	mg/dL	NORMAL: < 100.0

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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Test Name		Value	Unit	Biological Reference interval
			FILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		193.78	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSPI	ERUM hate oxidase (enzymatic)	133.83	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL by SELECTIVE INHIBITI		56.62	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL by CALCULATED, SPEC		110.39	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST by CALCULATED, SPEC		137.16 ^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 CHOLESTERO		26.77	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPEC	UM	521.39	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPEC	L RATIO: SERUM	3.42	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		1.95	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	2.36 ^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.

 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
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.9	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.18	mg/dL	0.00 - 0.40
	CT (UNCONJUGATED): SERUM	0.72	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		20.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM		24.9	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	0.82	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	111.39	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	40.92	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.85	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.35	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	3.5	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE	M	1.24	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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	Dr. Vinay Chopra	Dr. Yugan	n Chopra

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 interval
	KIDNE	EY FUNCTIO)N TEST (COMPLETE)	
UREA: SERUM		36.57	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU		1.05	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	17.09	mg/dL	7.0 - 25.0
BLOOD UREA NITE	ROGEN (BUN)/CREATININE	16.28	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	CTRODUCTOMETRY			
UREA/CREATININ		34.83	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		6.44	mg/dL	3.60 - 7.70
CALCIUM: SERUM	ET ENOXIDAGE	9.04	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	3.19	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		139	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERU		4.13	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	104.25	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	TERULAR FILTERATION RATE ERULAR FILTERATION RATE reen pre- and post renal azotemia.	81.8		

To differentiate between pre- and post renal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

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

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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Test Name		Value U	nit Biol	ogical Reference interval
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	ass (subnormal creatinine production tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVI (BUN rises disproportionately more to superimposed on renal disease.	ELS:	ve uropathy).	
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 3. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVI (BUN rises disproportionately more if superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses of monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increases creased BUN/creatinine ratio). apy (interferes with creatinine measure ULAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	ELS: than creatinine) (e.g. obstructiv but of extracellular fluid). blood). due to tubular secretion of ure e to creatinine). e in creatinine with certain me	ea.	GS
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 c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVI (BUN rises disproportionately more if superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses of monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increases creased BUN/creatinine ratio). apy (interferes with creatinine measu ILAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	ELS: than creatinine) (e.g. obstructive but of extracellular fluid). blood). due to tubular secretion of ure to creatinine). the in creatinine with certain me irement). GFR (mL/min/1.73m2) >90	ea. ethodologies,resulting in ASSOCIATED FINDIN No proteinuria	GS
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Diabetic disparame Peregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Diabetic ketoacido hould produce an in CED STAGE G1 G2 G3 G3 G3 C3 CAS	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVI (BUN rises disproportionately more if superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses of monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increases creased BUN/creatinine ratio). apy (interferes with creatinine measure LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR	ELS: than creatinine) (e.g. obstructive but of extracellular fluid). blood). due to tubular secretion of ure to creatinine). the in creatinine with certain mean rement). GFR (mL/min/1.73m2) >90 >90 60 - 89	ea. ethodologies,resulting in ASSOCIATED FINDIN No proteinuria Presence of Proteir	GS
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <u>CETIMATED GLOMERU</u> <u>G1</u> <u>G2</u> <u>G3a</u> <u>G3b</u>	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVI (BUN rises disproportionately more if superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses of monemias (urea is virtually absent in if inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creating eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increases creased BUN/creatinine ratio). apy (interferes with creatinine measure LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Moderate decrease in GFR	ELS: than creatinine) (e.g. obstructive but of extracellular fluid). blood). due to tubular secretion of ure to creatinine). the in creatinine with certain mean rement). GFR (mL/min/1.73m2) >90 >90 	ea. ethodologies,resulting in ASSOCIATED FINDIN No proteinuria Presence of Proteir	GS
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	Value	e Unit	Biological Reference interva
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	11N 1 1	
CLIENT ADDRESS	. 6240/1 NICHOLSON DOAD AMDALA CA	NTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Dec/2024 12:26PM
BARCODE NO.	: 01522717	COLLECTION DATE	: 20/Dec/2024 10:51AM
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CAN	TT) REGISTRATION DATE	: 20/Dec/2024 10:48 AM
COLLECTED BY	:	REG. NO./LAB NO.	: 012412200021
AGE/ GENDER	: 59 YRS/MALE	PATIENT ID	: 1704105
NAME	: Mr. ASHWANI KOHLI		
	Chairman & Consultant Patho		
	Dr. Vinay Chopra MD (Pathology & Microbiolog	Dr. Yugan	n Chopra (Pathology)

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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	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist		(Pathology)
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BARCODE NO.	: 01522717	COLLECTION DATE	: 20/Dec/2024 10:51AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Dec/2024 12:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval
	ENDO	CRINOLOGY	
	THYROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM 1.01 IESCENT MICROPARTICLE IMMUNOASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM 8.06	µgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SERUM 4.188 IESCENT MICROPARTICLE IMMUNOASSAY)	µIU/mL	0.35 - 5.50
3rd GENERATION, ULT			
INTERPRETATION:			
day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels between 2-4 a.m a measured serum TSH concentrations. TSH stimulates the p lure at any level of regulation of the hypothalamic-pituit roidism) of T4 and/or T3.	production and secretion of the m	etabolically active hormones, thyroxine (T4)and
CLINICAL CONDITION	T3	T4	TSH
D · · · · · · · · · · · ·			

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

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

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

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID 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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	MD (Pathology & Microbiology)		: Yugam Chopra MD (Pathology) Consultant Pathologist		
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Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECO	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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	01522717		LECTION DATE	: 20/Dec/2024 10:51AM
	KOS DIAGNOSTIC LAB		ORTING DATE	: 20/Dec/2024 11:22AM
CLIENT ADDRESS :	6349/1, NICHOLSON ROAD, A	AMBALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	THOLOGY	
	URINF ROI	UTINE & MICROS		ATION
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
	NCE SPECTROPHOTOMETRY	PALE IELLOW		PALE FELLOW
TRANSPARANCY	NCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY			
PROTEIN by DIP STICK/REFLECTAL	NCE SPECTROPHOTOMETRY	Trace		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTAI pH	NCE SPECTROPHOTOMETRY	6		5.0 - 7.5
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY			
KETONE BODIES by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		2+		NEGATIVE (-ve)
ASCORBIC ACID	NCE SPECTROPHOTOMETRY	NEGATIVE (-ve	e)	NEGATIVE (-ve)
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY			
MICROSCOPIC EXAM		19.15	/LIDE	0.2
RED BLOOD CELLS (R by MICROSCOPY ON CEN	CBCS) ITRIFUGED URINARY SEDIMENT	12-15	/HPF	0 - 3





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Test Name	Value	Unit	Biological Reference interval
		(1100	

rest name	Value	CIMC	biological weier chee inter var
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-5	/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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