

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mr. MANJIT SINGH			
AGE/ GENDER	: 43 YRS/MALE		PATIENT ID	: 1624663
COLLECTED BY	:		REG. NO./LAB NO.	: 012409250020
REFERRED BY	:		REGISTRATION DATE	: 25/Sep/2024 08:52 AM
BARCODE NO.	: 01517668		COLLECTION DATE	: 25/Sep/2024 08:58AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A		REPORTING DATE	: 25/Sep/2024 09:14AM
Test Name		Value	Unit	Biological Reference interval
	sw		LLNESS PANEL: 1.2	
	C	COMPLETE BLC	DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		15.5	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RE by HYDRO DYNAMIC I	C) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.22 <sup>H</sup>	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLUN	1E (PCV)	47.1	%	40.0 - 54.0
MEAN CORPUSCULA	utomated hematology analyze R VOLUME (MCV) utomated hematology analyze	90.2	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH) <i>utomated hematology analyze</i>	29.7 ER	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZE	32.9	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZE	13.1	%	11.00 - 16.00
	ION WIDTH (RDW-SD) utomated hematology analyze	44.1	fL	35.0 - 56.0
MENTZERS INDEX		17.28	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE by calculated	X	22.64	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
	BY SF CUBE & MICROSCOPY	6630	/cmm	4000 - 11000
NUCLEATED RED BLC by AUTOMATED 6 PAF	OOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLC by CALCULATED BY A	OOD CELLS (nRBCS) % <i>utomated hematology analyze</i>	NIL	%	< 10 %
DIFFERENTIAL LEUCO	<u>DCYTE COUNT (DLC)</u>			
NEUTROPHILS		64	%	50 - 70





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







	<b>Dr. Vinay Chop</b> MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
	Y BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES		6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	Ŭ		
ABSOLUTE LEUKOCY	TES (WBC) COUNT			
ABSOLUTE NEUTROF		4243	/cmm	2000 - 7500
ABSOLUTE LYMPHO	Y BY SF CUBE & MICROSCOPY CYTE COUNT	1856	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	1000	, on an	
ABSOLUTE EOSINOP		133	/cmm	40 - 440
ABSOLUTE MONOCY	Y BY SF CUBE & MICROSCOPY TE COUNT	398	/cmm	80 - 880
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
	L COUNT ( by sf cube & microscopy	0	/cmm	0 - 110
-	IER PLATELET PREDICTIVE MARKE	ERS.		
PLATELET COUNT (PI		193000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	UUUSING, ELEUIRIUAL IMPEDENCE	0.25	%	0.10 - 0.36
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET VO	LUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	13 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CEL		89000	/cmm	30000 - 90000
PLATELET LARGE CEI	L RATIO (P-LCR)	46 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUT	FOCUSING, ELECTRICAL IMPEDENCE	17	%	15.0 - 17.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTI	NG DATE	: 25/Sep/2024 09:28AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHR	OCYTE SEDIMENTATI	ON RATE (ESR	)
by RED CELL AGGRET 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), sigras sickle cells in sickl NOTE: 1. ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	does not tell the health practition cted by other conditions besides in be used to monitor disease activity ematosus <b>WESR</b> n with conditions that inhibit the r hificantly high white blood cell cou e cell anaemia) also lower the ESF e protein (C-RP) are both markers of ses not change as rapidly as does CR by as many other factors as is ESR, ed, it is typically a result of two typ ye a higher ESR, and menstruation	often indicates the present er exactly where the inflan aflammation. For this reaso y and response to therapy normal sedimentation of re nt (leucocytosis), and som R. of inflammation. P, either at the start of inf <b>making it a better marker</b> pes of proteins, globulins o and pregnancy can cause t	Immation is in the on, the ESR is typi in both of the ab ed blood cells, such he protein abnorr lammation or as of inflammation. r fibrinogen. emporary elevati	on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such ove diseases as well as some others, such as ch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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Test Name		Value	Unit	Biological Reference interval		
	CLINIC	AL CHEMISTRY/E	BIOCHEMISTR	Y		
		<b>GLUCOSE FASTI</b>	NG (F)			
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		101.17 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0		
1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	ion of 75 gms of glucose) is recomm	nsidered normal. /dl is considered as glu hended for all such pati highly suggestive of dia	ents. betic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al atory for diabetic state.		





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CEO & Consultant Pathologist

Dr. Vinay Chopra

: Mr. MANJIT SINGH

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		177.69	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	214.11 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTEROL ( by SELECTIVE INHIBIT		43.06	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		91.81	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 CHOLESTE by CALCULATED, SPL		134.63 <sup>H</sup>	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 CHOLESTEROL: by CALCULATED, SPE		42.82	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI	M	569.49	mg/dL	350.00 - 700.00
		1.10	DATIO	

- 219.0 > OR = 220.0 .00 LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

LDL CHOLESTEROL: SERUM NON HDL CHOLESTEROL: SERUM VL

VLDL CHOLESTEROL: SERUM
by CALCULATED, SPECTROPHOTOMETRY
TOTAL LIPIDS: SERUM

by CALCULATED, SPECTROPHOTOMET CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

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RATIO

RATIO

4.13

2.13



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NAME





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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	RATIO: SERUM	4.97	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

## **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 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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**EXCELLENCE IN HEALTHCARE & DIAGNOSTICS** 

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Test Name		Value	Unit	Biological Reference interval
		LIVER FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: SI	ERUM PECTROPHOTOMETRY	0.5	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20

BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.5	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.36	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	14.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.9	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.63	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	117.67	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	26.72	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.74	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.43	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.31	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.92	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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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).

PROGNOSTIC SIGNIFICAN	
PROGINOSTIC SIGNIFICAN	CE:

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



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	חוא		EST (COMPLETE)	
UREA: SERUM	RID	27.86	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)	27.00	ing/ dL	10.00 - 30.00
CREATININE: SERUM		1.16	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC BLOOD UREA NITRO		13.02	mg/dL	7.0 - 25.0
by CALCULATED, SPE	CTROPHOTOMETRY			
BLOOD UREA NITRO RATIO: SERUM	GEN (BUN)/CREATININE	11.22	RATIO	10.0 - 20.0
by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININE R		24.02	RATIO	
by CALCULATED, SPE	CTROPHOTOMETRY	10.04 <sup>H</sup>	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE		-	
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.25	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER		3.68	mg/dL	2.30 - 4.70
	ATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		140.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.13	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	E ELECTRODE)	105 15	1.0	00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	E ELECTRODE)	105.15	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			

Dr. Vinay Chopra

ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED **INTERPRETATION:** 

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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80.1

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Test Name		Value Unit	Biological Reference interval
<ol> <li>Low protein diet an</li> <li>Severe liver disease</li> </ol>	e. creased urea synthesis.	uses out of extracellular fluid).	
5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. <b>DECREASED RATIO (&lt;1</b> 1. Phenacimide theral 2. Rhabdomyolysis (re 3. Muscular patients v <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacidos should produce an inc	monemias (urea is virtually abse f inappropiate antidiuretic harmo o:1) WITH INCREASED CREATININ py (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false inc creased BUN/creatinine ratio).	none) due to tubular secretion of urea. <b>IE:</b> eatine to creatinine). crease in creatinine with certain methodol	ogies,resulting in normal ratio when dehydr
5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. <b>DECREASED RATIO (&lt;1</b> 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients y <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacidos should produce an ind 2. Cephalosporin ther <b>ESTIMATED GLOMERU</b>	monemias (urea is virtually abse f inappropiate antidiuretic harmo o:1) WITH INCREASED CREATININ oy (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false inc creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE:	none) due to tubular secretion of urea. <b>IE:</b> eatine to creatinine). crease in creatinine with certain methodol neasurement).	ogies, resulting in normal ratio when dehydra
5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. <b>DECREASED RATIO (&lt;1</b> 1. Phenacimide theral 2. Rhabdomyolysis (re 3. Muscular patients v <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacidos should produce an ind 2. Cephalosporin ther <b>ESTIMATED GLOMERU</b> <b>CKD STAGE</b>	monemias (urea is virtually abse f inappropiate antidiuretic harmo o:1) WITH INCREASED CREATININ by (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false ind creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE: DESCRIPTION	none) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodol neasurement). GFR ( mL/min/1.73m2 ) At	SSOCIATED FINDINGS
5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. <b>DECREASED RATIO (&lt;1</b> 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients y <b>INAPPROPIATE RATIO</b> 1. Diabetic ketoacidos should produce an ind 2. Cephalosporin ther <b>ESTIMATED GLOMERU</b>	monemias (urea is virtually abse f inappropiate antidiuretic harmo o:1) WITH INCREASED CREATININ oy (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false inc creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE:	Inone) due to tubular secretion of urea. IE: eatine to creatinine). crease in creatinine with certain methodol measurement). GFR (mL/min/1.73m2) Attion >90	

Severe decrease in GFR	
Kidney failure	

G3a

G3b

G4 G5

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Mild decrease in GFR

Moderate decrease in GFR

Kidney failure

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60 - 89

30-59

15-29

<15

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	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant	obiology) ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. MANJIT SINGH		
AGE/ GENDER	: 43 YRS/MALE	PATIENT ID	: 1624663
COLLECTED BY	:	REG. NO./LAB NO.	: 012409250020
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 25/Sep/2024 08:52 AM
BARCODE NO.	: 01517668	COLLECTION DATE	: 25/Sep/2024 08:58AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 25/Sep/2024 11:03AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
<u> </u>			
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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Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM vescent microparticle immunoassa	1.065 (Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM NESCENT MICROPARTICLE IMMUNOASSA	6.47 Y)	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	2.158 (Y)	μlU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
day has influence on the	measured serum TSH concentrations.TSH st ilure at any level of regulation of the hypot	imulates the p	roduction and secretion of the m	m. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 and/or T3.

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 (eg: phenytoin , salicylates).

3. Serum T4 levies 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROX	(T4)	THYROID STIMU	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

rest mame			value	Unit		Biological Reference in	U
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 LE	VELS DURING PREG	NANCY ( 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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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
		CLINICAL PAT	HOLOGY	
	URINE RO	OUTINE & MICROS	COPIC EXAMINAT	ΓΙΟΝ
<b>PHYSICAL EXAMINA</b>				
QUANTITY RECIEVE		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		10		
		PALE YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY			
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Nogotivo		
	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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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
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS		2-3	/HPF	0 - 5

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by microscopy on centrifuged urinary sediment	ABSENT		ABSENT

\*\*\* End Of Report \*\*





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