

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	<b>Dr. Vinay Chopr</b> MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mr. CHANDER MOHAN			
AGE/ GENDER	: 31 YRS/MALE		PATIENT ID	: 1597166
COLLECTED BY	:		REG. NO./LAB NO.	: 012408310018
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 31/Aug/2024 09:35 AM
BARCODE NO.	: 01516014		COLLECTION DATE	: 31/Aug/2024 09:44AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	SALA CANT	<b>REPORTING DATE</b>	: 31/Aug/2024 10:33AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WI	ELLNESS PANEL: 1.2	
	CON		OOD COUNT (CBC)	
RED BLOOD CELLS (RI	BCS) COUNT AND INDICES		(,	
HAEMOGLOBIN (HB)		15.4	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB	C) COUNT	5.14 <sup>H</sup>	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC F PACKED CELL VOLUM	OCUSING, ELECTRICAL IMPEDENCE F (PCV)	48.4	%	40.0 - 54.0
	JTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULAR	R VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	94.2	fL	80.0 - 100.0
MEAN CORPUSCULAR	R HAEMOGLOBIN (MCH)	30	pg	27.0 - 34.0
-	JTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	31.8 <sup>L</sup>	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	16.4 <sup>H</sup>	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	57.5 <sup>H</sup>	fL	35.0 - 56.0
MENTZERS INDEX		18.33	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED		30.1	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED	A A A A A A A A A A A A A A A A A A A	50.1	KATO	IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CO	DUNT (TLC) by sf cube & microscopy	7320	/cmm	4000 - 11000
NUCLEATED RED BLO	OD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PAR NUCLEATED RED BLO	<i>T HEMATOLOGY ANALYZER</i> OD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY AU	JTOMATED HEMATÓLOGY ANALYZER			
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>	( )		50.70
NEUTROPHILS	BY SF CUBE & MICROSCOPY	63	%	50 - 70

57 25.5

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

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







Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. CHANDER MOHAN AGE/ GENDER : 31 YRS/MALE **PATIENT ID** :1597166 **COLLECTED BY** :012408310018 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 31/Aug/2024 09:35 AM **BARCODE NO.** :01516014 **COLLECTION DATE** : 31/Aug/2024 09:44AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 31/Aug/2024 10:33AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 28 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 5 MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4612 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2050 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 293 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 366 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 365000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 0.10 - 0.36 PLATELETCRIT (PCT) 0.41<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 11 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 130000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 35.7 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 16.7 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT CODE.	: KOS DIAGN			REPORTING DATE	: 31/Aug/2024 10:48AM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		FDVTU			2)
				MENTATION RATE (ES	
ERYTHROCYTE SEDI by MODIFIED WESTER		• •	20	mm/1st ł	nr 0 - 20
NTERPRETATION:					
. ESR is a non-speci	fic test because	an elevated resul	t often indicates	the presence of inflammat	ion associated with infection, cancer and auto-
2. An ESR can be affe	ected by other (	conditions besides	inflammation. Fo	or this reason, the ESR is ty	e body or what is causing it. pically used in conjunction with other test such
as C-reactive proteir	า			- -	
3. This test may also systemic lupus eryth	be used to mo	nitor disease activ	ity and response	to therapy in both of the a	bove diseases as well as some others, such as
CONDITION WITH LO	W ESR				
A low ESR can be see	en with condition	ons that inhibit the	e normal sedimen	ntation of red blood cells, s	uch as a high red blood cell count <b>see</b> (such prmalities. Some changes in red cell shape (such
as sickle cells in sick	le cell anaemia	also lower the E	SR.	s), and some protein abiic	infiancies. Some changes in red cen shape (such
NOTE:					
1. ESR and C - reactive Constraints FSR doe	e protein (C-RF	') are both markers is rapidly as does (	s of inflammation CRP either at the	n. Estart of inflammation or a	s it resolves
3. CRP is not affected	by as many ot	her factors as is ES	R, making it a bet	tter marker of inflammation	n.
<ol> <li>If the ESR is elevation</li> <li>Women tend to be</li> </ol>	ted, it is typical	ly a result of two t	ypes of proteins,	globulins or fibrinogen. can cause temporary eleva	ations
<ol><li>Drugs such as dex</li></ol>	tran, methyldo	pa, oral contracep	tives, penicillami	ine procainamide, theophy	Iline, and vitamin A can increase ESR, while
aspirin, cortisone, ai	nd quinine may	decrease it			
1915-ASHONOR				٨	
2. 在在经济		20	6	I also	





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	MD (Pathology & Chairman & Con	& Microbiology) nsultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
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	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		ORTING DATE	: 31/Aug/2024 11:28AM
			ORTING DATE	: 31/Aug/2024 11:28AM Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit	Biological Reference interval
CLIENT CODE. CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT Value	Unit 7/BIOCHEMISTR	Biological Reference interval

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.
 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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD ( CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		179	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 24
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	119.6	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		39.86	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		115.22	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 150 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		139.14 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 18 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		23.92	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN		477.6	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	4.49 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by CALCULATED, SPEC		2.89	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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		h <b>opra</b> & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3	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 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

MD (Pathology)

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Test Name	Value	Unit	Biological Reference interval

Dr. Vinay Chopra

MD (Pathology & Microbiology)

u	VER FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.45	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by diazo modified, spectrophotometry	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.3	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	20.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	36.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.55	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para NITROPHENYL PHOSPHATASE BY AMINO METHY PROPANOL	75.88 /L	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	21.88	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by biuret, spectrophotometry	7.38	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	3.69	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.69 <sup>H</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1	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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Test Name		lue Unit	Biological Reference interval

#### 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:

GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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Dr. Vinay Chopra

# **ESTIMATED GLOMERULAR FILTERATION RATE**

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.

114.1

2. Catabolic states with increased tissue breakdown.



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5001.2000 0ENT						
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est Name			Value	Unit	Biological	Reference interval
<ul> <li>D. Inherited hyperam</li> <li>Y. SIADH (syndrome c</li> <li>B. Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> </ul>	0:1) WITH DEC osis. Id starvation. e. creased urea s urea rather th monemias (uro f inappropiate 0:1) WITH INC	REASED BUN : ynthesis. an creatinine diffuses ou ea is virtually absent in b antidiuretic harmone) d REASED CREATININE:	olood). Iue to tubular se			
	eleases muscle who develop r : sis (acetoaceta	e creatinine). enal failure. ate causes false increase		th certain methodolo	ogies,resulting in norma	ıl ratio when dehydratio
<ul> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>hould produce an induction</li> <li>Cephalosporin ther</li> </ul>	eleases muscle who develop r : sis (acetoaceta creased BUN/o apy (interferes	e creatinine). renal failure. ate causes false increase creatinine ratio). s with creatinine measure	in creatinine wi	th certain methodolo	ogies,resulting in norma	Il ratio when dehydration
<ul> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>hould produce an in-</li> <li>Cephalosporin ther</li> <li>STIMATED GLOMERL</li> </ul>	eleases muscle who develop r : sis (acetoaceta creased BUN/o apy (interferes	e creatinine). renal failure. ate causes false increase creatinine ratio). s with creatinine measure <b>ON RATE:</b>	in creatinine wi ement).			ıl ratio when dehydration
. Muscular patients <b>NAPPROPIATE RATIO</b> . Diabetic ketoacido hould produce an in . Cephalosporin ther <u>STIMATED GLOMERL</u> CKD STAGE	eleases muscle who develop r : sis (acetoaceta creased BUN/c apy (interfere: I <b>LAR FILTERATI</b>	e creatinine). renal failure. ate causes false increase creatinine ratio). s with creatinine measure <b>ON RATE:</b> <b>DESCRIPTION</b>	in creatinine wi ement). <b>GFR ( mL/mi</b>	n/1.73m2) AS	SOCIATED FINDINGS	Il ratio when dehydration
. Muscular patients NAPPROPIATE RATIO . Diabetic ketoacido hould produce an in . Cephalosporin ther STIMATED GLOMERL	eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes ILAR FILTERATI	e creatinine). renal failure. ate causes false increase creatinine ratio). s with creatinine measure <b>ON RATE:</b>	in creatinine wi ement).	n/1.73m2) AS		Il ratio when dehydratio
. Muscular patients <b>VAPPROPIATE RATIO</b> . Diabetic ketoacido hould produce an in . Cephalosporin ther <b>STIMATED GLOMERL</b> <b>CKD STAGE</b> G1 G2	eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes I <b>LAR FILTERATI</b>	e creatinine). enal failure. ate causes false increase creatinine ratio). s with creatinine measure <b>ON RATE:</b> <b>DESCRIPTION</b> ormal kidney function Kidney damage with normal or high GFR	in creatinine wi ement). GFR (mL/mi >9 >9	n/1.73m2) AS	SOCIATED FINDINGS	Il ratio when dehydratio
. Muscular patients <b>JAPPROPIATE RATIO</b> . Diabetic ketoacido hould produce an in . Cephalosporin ther <u>STIMATED GLOMERL</u> <u>CKD STAGE</u> G1	eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferes ILAR FILTERATI	e creatinine). enal failure. ate causes false increase creatinine ratio). s with creatinine measure <b>ON RATE:</b> <b>DESCRIPTION</b> ormal kidney function Kidney damage with	in creatinine wi ement). GFR ( mL/mi >9	n/1.73m2) AS D P D Alb 89	SOCIATED FINDINGS No proteinuria resence of Protein ,	Il ratio when dehydratio

G4

G5

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

Severe decrease in GFR

Kidney failure

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

15-29

<15

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

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	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant	biology) MI	m <b>Chopra</b> D (Pathology) ht Pathologist
NAME	: Mr. CHANDER MOHAN		
AGE/ GENDER	: 31 YRS/MALE	PATIENT ID	: 1597166
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012408310018
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 31/Aug/2024 09:35 AM
BARCODE NO.	:01516014	COLLECTION DATE	: 31/Aug/2024 09:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 31/Aug/2024 01:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	LA CANTT	
			/
Test Name	N	/alue 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	Value	Unit	Biological Reference interval		
		ENDO	CRINOLOGY			
	THYR	OID FUN	CTION TEST: TOTAL			
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	1.103	ng/mL	0.35 - 1.93		
THYROXINE (T4): SEI by CMIA (CHEMILUMIN	RUM iescent microparticle immunoassay)	7.98	μgm/dL	4.87 - 12.60		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION:			µIU/mL	0.35 - 5.50		
day has influence on the i trilodothyronine (T3).Fai		ulates the pr	oduction and secretion of the me	m. The variation is of the order of 50%.Hence time of th etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or		

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

#### LIMITATIONS:-

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

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

3. Serum T4 levles 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.

TRIIODOTHYRONINE (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





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Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS 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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PATHO	LOGY		
	URINE RO	OUTINE & MICROSCO	PIC EXAMINAT	ΓΙΟΝ	
PHYSICAL EXAMINA					
QUANTITY RECIEVED		10	ml		
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR					
		PALE YELLOW		PALE YELLOW	
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR	
	TANCE SPECTROPHOTOMETRY	OLLYIN			
SPECIFIC GRAVITY		>=1.030		1.002 - 1.030	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
REACTION		ACIDIC			
	TANCE SPECTROPHOTOMETRY	ACIDIC			
PROTEIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-Ve)	
рН		5.5		5.0 - 7.5	
by DIP STICK/REFLEC BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-VE)	
NITRITE		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0	
	TANCE SPECTROPHOTOMETRY	Normal	LU/UL	0.2 - 1.0	
KETONE BODIES		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC BLOOD	TANCE SPECTROPHOTOMETRY	Nogativo			
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				

MICROSCOPIC EXAMINATION



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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

RED BLOOD CELLS (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	1-3	/HPF	0 - 5
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS	0-2	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			

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



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