





	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		: Yugam MD (F Consultant F	Pathology)
NAME : N	Mr. AMIT				
AGE/ GENDER : 4	12 YRS/MALE		PATIENT ID		: 1598973
COLLECTED BY :			REG. NO./LAB N	JO.	: 012409020037
REFERRED BY :			REGISTRATION		: 02/Sep/2024 10:48 AM
)1516170		COLLECTION DA		: 02/Sep/2024 10:52AM
	KOS DIAGNOSTIC LAB		REPORTING DA		: 02/Sep/2024 04:35PM
			KEP OKTING DA	IL	. 02/Sep/2024 04.55FM
CLIENT ADDRESS : 6	3349/1, NICHOLSON ROAD, AMB/	ALA CANT I			
Test Name		Value		Unit	Biological Reference interval
		IPLETE BLO	DOD COUNT ((CBC)	
RED BLOOD CELLS (RBCS	S) COUNT AND INDICES				
HAEMOGLOBIN (HB)		12.8		gm/dL	12.0 - 17.0
by CALORIMETRIC		4.40		N 4:11: /	
RED BLOOD CELL (RBC) (JOUNT ISING, ELECTRICAL IMPEDENCE	4.42		Millions/cm	nm 3.50 - 5.00
PACKED CELL VOLUME (39.6 ^L		%	40.0 - 54.0
by CALCULATED BY AUTO	DMATED HEMATOLOGY ANALYZER				
MEAN CORPUSCULAR V	DLUME (MCV) MATED HEMATOLOGY ANALYZER	89.6		fL	80.0 - 100.0
MEAN CORPUSCULAR H		29		pg	27.0 - 34.0
	MATED HEMATOLOGY ANALYZER	- /		P9	21.0 01.0
	EMOGLOBIN CONC. (MCHC) MATED HEMATOLOGY ANALYZER	32.4		g/dL	32.0 - 36.0
RED CELL DISTRIBUTION	I WIDTH (RDW-CV) DMATED HEMATOLOGY ANALYZER	16.5 ^H		%	11.00 - 16.00
RED CELL DISTRIBUTION	I WIDTH (RDW-SD) MATED HEMATOLOGY ANALYZER	55.3		fL	35.0 - 56.0
MENTZERS INDEX		20.27		RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		33.49		RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (W	<u>/BCS)</u>				
TOTAL LEUCOCYTE COUI	. ,	6270		/cmm	4000 - 11000
NUCLEATED RED BLOOD	CELLS (nRBCS)	NIL			0.00 - 20.00
NUCLEATED RED BLOOD	CELLS (nRBCS) % MATED HEMATOLOGY ANALYZER	NIL		%	< 10 %
NEUTROPHILS by flow cytometry by	SF CUBE & MICROSCOPY	60		%	50 - 70



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



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

NAME	: Mr. AMIT			
AGE/ GENDER	: 42 YRS/MALE	PA	TIENT ID	: 1598973
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012409020037
REFERRED BY	:	RE	GISTRATION DATE	: 02/Sep/2024 10:48 AM
BARCODE NO.	: 01516170	CO	LLECTION DATE	: 02/Sep/2024 10:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 02/Sep/2024 04:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			%	-
LYMPHOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	26	%	20 - 40
EOSINOPHILS		5	%	1 - 6
by FLOW CYTOMETRY MONOCYTES	Y BY SF CUBE & MICROSCOPY	9	0/	2 12
	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS		0	%	0 - 1
by FLOW CYTOMETRY ABSOLUTE LEUKOCY	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE NEUTROF		3762	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	5702	7 CHIIII	2000 - 7300
ABSOLUTE LYMPHOO		1630	/cmm	800 - 4900
ABSOLUTE EOSINOPI	Y BY SF CUBE & MICROSCOPY	314	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	514	/ cmm	0++0
ABSOLUTE MONOCY		564	/cmm	80 - 880
ABSOLUTE BASOPHIL	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	BY SF CUBE & MICROSCOPY	0	/ ciriiri	0 110
	RE GRANULOCYTE COUNT	0	/cmm	0.0 - 999.0
•	' BY SF CUBE & MICROSCOPY IER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PL	.T)	70000 ^L	/cmm	150000 - 450000
by HYDRO DYNAMIC I	OCUSING, ELECTRICAL IMPEDENCE		0/	0.10 0.24
PLATELETCRIT (PCT) by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE	0.1	%	0.10 - 0.36
MEAN PLATELET VOI	UME (MPV)	15 ^H	fL	6.50 - 12.0
by HYDRO DYNAMIC I PLATELET LARGE CEL	FOCUSING, ELECTRICAL IMPEDENCE	44000	/cmm	30000 - 90000
	OCUSING, ELECTRICAL IMPEDENCE	11000		
PLATELET LARGE CEL		63.4 ^H	%	11.0 - 45.0
PLATELET DISTRIBUT	FOCUSING, ELECTRICAL IMPEDENCE	17.6 ^H	%	15.0 - 17.0
by HYDRO DYNAMIC I	OCUSING, ELECTRICAL IMPEDENCE	17.0		· · ·
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	VTT	
Test Name	Value	Unit	Biological Reference interval

RECHECKED.



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AGE/ GENDER : 42 COLLECTED BY : REFERRED BY : BARCODE NO. : 01 CLIENT CODE. : K0	TATION RATE (ESR)		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE Unit	: 1598973 : 012409020037 : 02/Sep/2024 10:48 AM : 02/Sep/2024 10:52AM : 02/Sep/2024 04:35PM Biological Reference interval
COLLECTED BY : REFERRED BY : BARCODE NO. : 01 CLIENT CODE. : K(CLIENT ADDRESS : 63 Test Name ERYTHROCYTE SEDIMENT by MODIFIED WESTERGREN	1516170 OS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMB ERYTHRO TATION RATE (ESR)	BALA CANTT	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE Unit	: 012409020037 : 02/Sep/2024 10:48 AM : 02/Sep/2024 10:52AM : 02/Sep/2024 04:35PM
REFERRED BY : BARCODE NO. : 01 CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name	OS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMB ERYTHRO TATION RATE (ESR)	BALA CANTT	REGISTRATION DATE COLLECTION DATE REPORTING DATE Unit	: 02/Sep/2024 10:48 AM : 02/Sep/2024 10:52AM : 02/Sep/2024 04:35PM
BARCODE NO. : 01 CLIENT CODE. : KO CLIENT ADDRESS : 63 Test Name ERYTHROCYTE SEDIMENT by MODIFIED WESTERGREN	OS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMB ERYTHRO TATION RATE (ESR)	Value	COLLECTION DATE REPORTING DATE Unit	: 02/Sep/2024 10:52AM : 02/Sep/2024 04:35PM
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CLIENT ADDRESS : 63 Test Name ERYTHROCYTE SEDIMENT by MODIFIED WESTERGREN	349/1, NICHOLSON ROAD, AMB ERYTHRO TATION RATE (ESR)	Value	Unit	
Test Name ERYTHROCYTE SEDIMENT by MODIFIED WESTERGREN	ERYTHRO TATION RATE (ESR)	Value		Biological Reference interval
ERYTHROCYTE SEDIMENT	TATION RATE (ESR)			Biological Reference interval
by MODIFIED WESTERGREN	TATION RATE (ESR)	CYTE SEDIN		
by MODIFIED WESTERGREN	TATION RATE (ESR)		MENITATIANI DATE /ECC	2)
mmune disease, but does An ESR can be affected by C-reactive protein C-reactive protein Condition with Low ESR A low ESR can be seen with polycythaemia), significar is sickle cells in sickle cell IOTE: C-SR and C - reactive protection C-reactive protection C-react	s not tell the health practitioner of by other conditions besides infla sed to monitor disease activity ar osus R th conditions that inhibit the nor ntly high white blood cell count I anaemia) also lower the ESR. tetin (C-RP) are both markers of i t change as rapidly as does CRP, or s many other factors as is ESR, ma is typically a result of two types higher ESR, and menstruation an methyldopa, oral contraceptives	exactly where ammation. Fo nd response mal sedimen (leucocytosis inflammation either at the aking it a bet s of proteins, id predenacy	e the inflammation is in the or this reason, the ESR is typ to therapy in both of the al tation of red blood cells, su s), and some protein abnor start of inflammation or as ter marker of inflammation globulins or fibrinogen. can cause temporary eleva	on associated with infection, cancer and auto- body or what is causing it. bically 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 (suc hit resolves.





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. AMIT			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 02/Sep/2024 11:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT	Unit	Biological Reference interval
		Value	/BIOCHEMISTR	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AMIT AGE/ GENDER : 42 YRS/MALE **PATIENT ID** :1598973 **COLLECTED BY** :012409020037 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :02/Sep/2024 10:48 AM **BARCODE NO.** :01516170 **COLLECTION DATE** :02/Sep/2024 10:52AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Sep/2024 12:01PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM 113.65 mg/dL OPTIMAL: < 200.0 by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 TRIGLYCERIDES: SERUM 53.14 mg/dL OPTIMAL: < 150.0 by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 HDL CHOLESTEROL (DIRECT): SERUM 43.3 mg/dL LOW HDL: < 30.0 by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -60.0 HIGH HDL: > OR = 60.0 59.72 LDL CHOLESTEROL: SERUM mg/dL OPTIMAL: < 100.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 NON HDL CHOLESTEROL: SERUM 70.35 mg/dL OPTIMAL: < 130.0 by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 VLDL CHOLESTEROL: SERUM 10.63 mg/dL 0.00 - 45.00 by CALCULATED, SPECTROPHOTOMETRY **TOTAL LIPIDS: SERUM** mg/dL 350.00 - 700.00 280.44^L by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM 2.62 RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LDL/HDL RATIO: SERUM 1.38 RATIO LOW RISK: 0.50 - 3.0 by CALCULATED, SPECTROPHOTOMETRY MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.23 ^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.

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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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

Unit

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Value

			-
LIVE	R FUNCTION TES	Г (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	1.63 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.63 ^H	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	1	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	79.2 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	46.9	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.69	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	165.43 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	44.73	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.3	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.3 ^L	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.1	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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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



Biological Reference interval

Test Name





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Test Name		Value 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).

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



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



AMBALA CANTT **FEST PERFORMED AT KOS DIAGNOSTIC LAB.**





	MD (Pathology	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n Chopra 9 (Pathology) t Pathologist
NAME	: Mr. AMIT			
AGE/ GENDER	: 42 YRS/MALE	Р	ATIENT ID	: 1598973
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012409020037
REFERRED BY	:	R	EGISTRATION DATE	: 02/Sep/2024 10:48 AM
BARCODE NO.	: 01516170		OLLECTION DATE	: 02/Sep/2024 10:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 02/Sep/2024 12:19PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA		LI UNITING DATE	. 02/ 50p/ 2024 12.101 W
LIENI ADDRESS	. 0543/ I, MICHOLSON KOA	D, ANIDALA CANT I		
Test Name		Value	Unit	Biological Reference interval
ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m	ike or production or tissue brea exia, high fever). (e.g. ureter colostomy) hass (subnormal creatinine pro tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATINI	oduction)	, GI bleeding, thyrotoxic	cosis, Cushing's syndrome, high protein diet,

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

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



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Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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





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Test Name		Value	Unit	Biological Reference interval	
		ENDO	CRINOLOGY		
	TH	YROID FUN	ICTION TEST: TOTAL		
TRIIODOTHYRONINI	E (T3): SERUM iescent microparticle immunoassa	0.436 (4 <i>Y</i>)	ng/mL	0.35 - 1.93	
THYROXINE (T4): SE by CMIA (CHEMILUMI IMMUNOASSAY)	RUM NESCENT MICROPARTICLE	4.78 ^L	µgm/dL	4.87 - 12.60	
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		1.136 (4 <i>Y</i>)	μlU/mL	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either 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 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.

TRIIODOTH	(RONINE (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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YKOS
EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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Test Name	Va	lue Unit	Biological Reference interval

			Value	01		Biological Reference inter
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 LI	EVELS DURING PREC	SNANCY (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.

Dr. Vinay Chopra

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 PA	ATHOLOGY	
	URINE RC	OUTINE & MICR	OSCOPIC EXAMINAT	ION
PHYSICAL EXAMINATION				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
COLOUR by DIP STICK/REFLECTANCE SPECTF		YELLOW		PALE YELLOW
TRANSPARANCY	KOI HOTOMETIKI	HAZY		CLEAR
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY	1 000		1 000 1 000
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTF	ROPHOTOMETRY	>=1.030		1.002 - 1.030
CHEMICAL EXAMINATION				
REACTION		ACIDIC		
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY	Traca		
PROTEIN by DIP STICK/REFLECTANCE SPECTF	ROPHOTOMETRY	Trace		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY	5.5		E 0 7 E
pH by DIP STICK/REFLECTANCE SPECTF	ROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN		1+		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT NITRITE	ROPHOTOMETRY	Positive		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY.			
UROBILINOGEN		Negative	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECTF KETONE BODIES	το ρποιοινίει κ γ	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
BLOOD by DIP STICK/REFLECTANCE SPECTE		Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-	ve)	NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTF				

MICROSCOPIC EXAMINATION



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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (RBCs)		NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	A few crystals seen		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		NEGATIVE (-ve)		NEGATIVE (-ve)	
		NEGATIVE (-ve)		NEGATIVE (-ve)	
		MUCOUS THREADS	SEEN	NEGATIVE (-ve)	

TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

** End Of Report **

ABSENT





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