

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)	
NAME	: Mrs. KAMINI KAKKAR				
AGE/ GENDER	: 74 YRS/FEMALE		PATIENT ID	: 1359645	
COLLECTED BY	:		REG. NO./LAB NO.	:042503180002	
REFERRED BY	:		REGISTRATION DATE	:18/Mar/202512:	33 PM
BARCODE NO.	: A1260666		COLLECTION DATE	: 18/Mar/2025 03:	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 18/Mar/2025 04:	28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTI			
Test Name		Value	Unit	Biologica	d Reference interval
	SWAST	THYA WE	LLNESS PANEL: G	г	
	СОМ	PLETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HI	3)	11.8 ^L	gm/dL	12.0 - 16	5.0
RED BLOOD CELL (1	RBC) COUNT	4.36	Millions	/cmm 3.50 - 5.0	00
PACKED CELL VOLU		37.6	%	37.0 - 50	0.0
MEAN CORPUSCUL		86.2	fL	80.0 - 10	0.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	27.1	pg	27.0 - 34	.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)) 31.5 ^L	g/dL	32.0 - 36	5.0
RED CELL DISTRIB	JTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.1	%	11.00 - 1	6.00
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	48.9	fL	35.0 - 56	5.0
MENTZERS INDEX		19.77	RATIO	13.0	IALASSEMIA TRAIT: < FICIENCY ANEMIA:
GREEN & KING IND		29.89	RATIO	65.0	IALASSEMIA TRAIT:<= FICIENCY ANEMIA: >
WHITE BLOOD CEI		5500		4000 1	1000
TOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) BY SF CUBE & MICROSCOPY	5580	/cmm	4000 - 1	1000
	LOOD CELLS (nRBCS)	NIL		0.00 - 20	0.00
	T HEMATOLOGY ANALYZER				

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. KAMINI KAKKAR AGE/ GENDER : 74 YRS/FEMALE **PATIENT ID** :1359645 **COLLECTED BY** :042503180002 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 18/Mar/2025 12:33 PM **BARCODE NO. COLLECTION DATE** :18/Mar/202503:17PM :A1260666 CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 18/Mar/2025 04:28PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 58 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 34 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3236 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1897 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 112 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 335 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 213000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) %

0.29 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 14^H MEAN PLATELET VOLUME (MPV) fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 110000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 51.5^H PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.315.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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			KIING DATE	: 18/Mar/ 2025 05:12PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interva	
WHOLE BLOOD	AEMOGLOBIN (HbA1c):	8.8 ^H	%	4.0 - 6.4	
ESTIMATED AVERA	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	205.86 ^H	mg/dL	60.00 - 140.00	
INTERFRETATION.		DIABETES ASSOCIATION (
	AJ FEK AIVIERIGAN D	ADLILS ASSOCIATION	ADA).		
		GLYCOSY		(HBAIC) in %	
	REFERENCE GROUP	GLYCOSY	ATED HEMOGLOGIB	(HBAIC) in %	
Non di		GLYCOSY	ATED HEMOGLOGIB	(HBAIC) in %	
Non di A	REFERENCE GROUP abetic Adults >= 18 years	GLYCOSY	ATED HEMOGLOGIB <5.7	(HBAIC) in %	
Non di A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		State State <th< td=""><td></td></th<>		
Non di A D	REFERENCE GROUP abetic Adults >= 18 years .t Risk (Prediabetes) Diagnosing Diabetes	Goals of The	ATED HEMOGLOGIB <5.7	< 7.0	
Non di A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		ATED HEMOGLOGIB <5.7		
Non di A D	REFERENCE GROUP abetic Adults >= 18 years .t Risk (Prediabetes) Diagnosing Diabetes	Goals of The	ATED HEMOGLOGIB <5.7	< 7.0	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropiate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia faisely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
'est Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIME	ENTATION RATE (1	ESR)
nmune disease, but	does not tell the health practitioner	exactly where the ammation. For the	he inflammation is in the his reason, the ESR is ty	pically used in conjunction with other test such





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	MD (F	/inay Chopra /athology & Microbiology) nan & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. KAMINI KAP	KAR		
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BARCODE NO.	: A1260664	COI	LLECTION DATE	: 18/Mar/2025 03:16PM
CLIENT CODE.	: KOS DIAGNOSTIC	SHAHBAD REI	PORTING DATE	: 18/Mar/2025 05:24PM
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMISTR	Y/BIOCHEMIST	TRY
		GLUCOSE FA	STING (F)	
GLUCOSE FASTING	F (F): PLASMA e - peroxidase (god-p	245.35^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF		
CHOLESTEROL TO by CHOLESTEROL O		177.62	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S	ERUM PHATE OXIDASE (ENZYMATIC)	239.81 ^H	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
	L (DIRECT): SERUM	63.73	mg/dL	HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 LOW HDL: < 30.0
by SELECTIVE INHIBIT				BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		65.93	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES' by CALCULATED, SPE		113.89	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER	OL: SERUM Ectrophotometry	47.96 ^H	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SEF		595.05	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		2.79	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.03	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		3.76	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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Test Name		Value	Unit	Biological Reference interval
	LIVER		TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF		0.33	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	(CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM CTROPHOTOMETRY	0.22	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY		22.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY		10.6	U/L	0.00 - 49.00
AST/ALT RATIO: SI	ERUM	2.11	RATIO	0.00 - 46.00
ALKALINE PHOSPH		126.71	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	16.43	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRON	SERUM	7.57	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.23	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	[3.34	gm/dL	2.30 - 3.50
		1.07	DATE: 0	1 0 0 0 0 0

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

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)

1.27



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RATIO

1.00 - 2.00

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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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



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Test Name		Value	Unit	Biological Reference interva
	KIDNE	Y FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	88.71 ^H	mg/dL	10.00 - 50.00
CREATININE: SER	UM	1.77 ^H	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC BLOOD UREA NITE by CALCULATED, SPE	ROGEN (BUN): SERUM	41.45 ^H	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	23.42 ^H	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	50.12	RATIO	
URIC ACID: SERUM	1	5.83	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	9.48	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by phosphomolybe	ERUM DATE, SPECTROPHOTOMETRY	3.74	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	142.8	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	5.76 ^H	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	107.1	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	29.8		
NOTE 2		RESULT	RECHECKED TWICE	

NOTE 2

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.

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		Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		gam Chopra MD (Pathology) Itant Pathologist	
NAME	: Mrs. KAMI	NI KAKKAR				
AGE/ GENDER	: 74 YRS/FEM	ALE	PA	TIENT ID	: 1359645	
COLLECTED BY	:		וס	G. NO./LAB NO.	: 0425031	80009
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REFERRED BY	:		R	GISTRATION DAT	E : 18/Mar/20)25 12:33 PM
BARCODE NO.	: A1260665		CO	LLECTION DATE	:18/Mar/20	025 03:17PM
CLIENT CODE.	: KOS DIAGN	OSTIC SHAHBAD	R	EPORTING DATE	:18/Mar/20	025 06:55PM
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMB	ALA CANTT			
Test Name			Value	Unit	Bi	ological Reference interval
burns, surgery, cachex 7. Urine reabsorption (8. Reduced muscle ma 9. Certain drugs (e.g. t INCREASED RATIO (>20 1. Postrenal azotemia	ia, high fever) (e.g. ureter col Iss (subnormal etracycline, gl):1) WITH ELEV (BUN rises disj	ostomy) creatinine production ucocorticoids) ATED CREATININE LEV proportionately more	n) ELS:			syndrome, high protein diet,
burns, surgery, cachex 7. Urine reabsorption (8. Reduced muscle ma 9. Certain drugs (e.g. t INCREASED RATIO (>20 1. Postrenal azotemia 2. Prerenal azotemia s DECREASED RATIO (<10 1. Acute tubular necro 2. Low protein diet and 3. Severe liver disease 4. Other causes of dec 5. Repeated dialysis (u 6. Inherited hyperamn 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (<10 1. Phenacimide therap 2. Rhabdomyolysis (re	ia, high fever) (e.g. ureter col iss (subnormal etracycline, gl b:1) WITH ELEV (BUN rises dis uperimposed b:1) WITH DECI isis. d starvation. reased urea sy urea rather that nonemias (urea b:1) WITH INCR by (accelerates leases muscle	ostomy) creatinine production ucocorticoids) ATED CREATININE LEV proportionately more on renal disease. REASED BUN : n creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatin creatinine).	n) ELS: than creatinine out of extracell blood). due to tubular	le.g. obstructive u ular fluid). secretion of urea.		syndrome, high protein diet,
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CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		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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NAME	: Mrs. KAMINI KAKKAR		
AGE/ GENDER	: 74 YRS/FEMALE	PATIENT ID	: 1359645
COLLECTED BY	:	REG. NO./LAB NO.	: 042503180002
REFERRED BY	:	REGISTRATION DATE	: 18/Mar/2025 12:33 PM
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Test Name	Valu	ie 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

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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,	AMBALA CANTT			
Test Name		Value	Unit	Biological Refe	rence interval
		ENDOC	RINOLOGY		
	ТН	YROID FUNC	TION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM DESCENT MICROPARTICLE IMMUNOAS	0.769 ssay)	ng/mI	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN	ERUM ESCENT MICROPARTICLE IMMUNOAS	6.62 SSAY)	μgm/c	lL 4.87 - 12.60	
	TING HORMONE (TSH): SERU		µIU/m	0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak levels measured serum TSH concentrations. TS lure at any level of regulation of the hy roidism) of T4 and/or T3.	SH stimulates the pro	oduction and secretion of the	, metabolically active hormones, thyr	oxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH]
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Low	Normal	Normal or Low Normal	High	

HM	ΤΑΤΙ	ONS:-
	1711	0143

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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.

TRIIODOTHY	TRIIODOTHYRONINE (T3)		THYROXINE (T4)		LATING 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

Increased

Normal or High Normal





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Test Name			Value	Uni	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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Test Name		Value	Unit	Biological Reference interval
		K / N D A ' ' / N / N /)GY/SEROLOG	
		C-REACTIVE PR		
				0.0 - 6.0
		C-REACTIVE PR	OTEIN (CRP)	
SERUM by NEPHLOMETRY INTERPRETATION:	EIN (CRP) QUANTITATIVE:	C- REACTIVE PR 1.56	OTEIN (CRP) mg/L	
SERUM by NEPHLOMETRY NTERPRETATION: 1. C-reactive protein 2. CRP levels can incr	EIN (CRP) QUANTITATIVE:	C-REACTIVE PR 1.56 acute-phase reactan	OTEIN (CRP) mg/L ts for inflammation.	
SERUM by NEPHLOMETRY <u>NTERPRETATION:</u> . C-reactive protein 2. CRP levels can incr proliferation. 3. CRP levels (Quanti	EIN (CRP) QUANTITATIVE: (CRP) is one of the most sensitive rease dramatically (100-fold or mo tative) has been used to assess act	C-REACTIVE PR 1.56 acute-phase reactan ore) after severe trac tivity of inflammator	OTEIN (CRP) mg/L ts for inflammation. uma, bacterial infectio	0.0 - 6.0
SERUM by NEPHLOMETRY INTERPRETATION: 1. C-reactive protein 2. CRP levels can incr proliferation. 3. CRP levels (Quanti rejection, and to mor 4. As compared to ES and the recovery bein	EIN (CRP) QUANTITATIVE: (CRP) is one of the most sensitive rease dramatically (100-fold or mo tative) has been used to assess act nitor these inflammatory processe SR, CRP shows an earlier rise in infl	C-REACTIVE PR 1.56 acute-phase reactan ore) after severe trac tivity of inflammator s. ammatory disorders P levels are not influ	OTEIN (CRP) mg/L ts for inflammation. uma, bacterial infectio y disease, to detect in which begins in 4-6 h	0.0 - 6.0 n, inflammation, surgery, or neoplastic

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2. Oral contraceptives may increase CRP levels.

*** End Of Report ***





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