



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME : Mrs. A	NCHAL GUGLANI			
AGE/ GENDER : 46 YR	S/FEMALE	I	PATIENT ID	: 1687933
COLLECTED BY : SURJE	SH	I	REG. NO./LAB NO.	: 012412020021
REFERRED BY :		l	REGISTRATION DATE	: 02/Dec/2024 10:14 AM
BARCODE NO. : 01521		-	COLLECTION DATE	: 02/Dec/2024 10:45AM
	IAGNOSTIC LAB '1, NICHOLSON ROAD, AMBA		REPORTING DATE	: 02/Dec/2024 11:25AM
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WEL	LNESS PANEL: 1.2	2
	СОМР	LETE BLO	OD COUNT (CBC)	
RED BLOOD CELLS (RBCS)	COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.4	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) CO		4.44	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLUME (PC by CALCULATED BY AUTOMATE	V)	40.2	%	37.0 - 50.0
MEAN CORPUSCULAR VOLU	IME (MCV)	90.4	fL	80.0 - 100.0
by CALCULATED BY AUTOMATE MEAN CORPUSCULAR HAE by CALCULATED BY AUTOMATE	MOGLOBIN (MCH)	27.9	pg	27.0 - 34.0
MEAN CORPUSCULAR HEM by CALCULATED BY AUTOMATE	OGLOBIN CONC. (MCHC)	30.8 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION W	VIDTH (RDW-CV)	13.1	%	11.00 - 16.00
RED CELL DISTRIBUTION V	VIDTH (RDW-SD)	44.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		20.36	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA:
GREEN & KING INDEX		26.65	RATIO	>13.0 BETA THALASSEMIA TRAIT:< 65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WB	<u>CS)</u>			
TOTAL LEUCOCYTE COUNT	(TLC)	7270	/cmm	4000 - 11000
NHITE BLOOD CELLS (WB FOTAL LEUCOCYTE COUNT by flow cytometry by sf cl NUCLEATED RED BLOOD CI by automated 6 part hemati	(TLC) BE & MICROSCOPY ELLS (nRBCS)	7270 NIL	/cmm	4000 - 11000 0.00 - 20.00

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. ANCHAL GUGLANI **AGE/ GENDER** : 46 YRS/FEMALE **PATIENT ID** :1687933 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012412020021 **REFERRED BY REGISTRATION DATE** :02/Dec/2024 10:14 AM : **BARCODE NO.** :01521838 **COLLECTION DATE** :02/Dec/2024 10:45AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Dec/2024 11:25AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 52 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 39 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 7 % 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 3780 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2835 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 145/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 509 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 182000 /cmm

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.27 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 15^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 109000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 59.9^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.1by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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%

fL

%

%

/cmm

0.10 - 0.36

6.50 - 12.0

11.0 - 45.0

15.0 - 17.0

30000 - 90000







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Test Name	Value	e Unit	Biological Reference interval





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 02/Dec/2024 11:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	OCYTE SEDIMEN	TATION RATE (ESR)
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also	does not tell the health practition ected by other conditions besides in	er exactly where the nflammation. For this	inflammation is in the sreason, the ESR is ty	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as





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	MD	Vinay Chopra (Pathology & Microbiology) rman & Consultant Pathologist	Dr. Yugar MD CEO & Consultant	(Pathology)
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BARCODE NO.	:01521838	C	COLLECTION DATE	: 02/Dec/2024 10:45AM
CLIENT CODE.	: KOS DIAGNOSTIO	C LAB R	EPORTING DATE	:02/Dec/202401:16PM
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMIST	RY/BIOCHEMIST	'RY
		GLUCOSE F	FASTING (F)	
GLUCOSE FASTINC by glucose oxidas	G (F): PLASMA Se - peroxidase (god-	85.79 POD)	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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50 9001 : 2008 CENT	Dr. Vinay C MD (Pathology	C hopra v & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		126.35	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM HATE OXIDASE (ENZYMATIC)	108.83	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM 10N	50.73	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		71.85	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		75.62	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		21.77	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SEE by CALCULATED, SPE	RUM	379.53	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	2.49	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.42	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	2.15 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SH	: SERUM PECTROPHOTOMETRY	0.37	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40
	CT (UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	15	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	17.3	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM	0.87	RATIO	0.00 - 46.00
ALKALINE PHOSPH		86.74	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	9.85	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.11 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.39	gm/dL	3.50 - 5.50
GLOBULIN: SERUN	1	1.72 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	M	2.55 ^H	RATIO	1.00 - 2.00

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:

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



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Test Name		Value Unit	Biological Reference interva

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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Test Name		Value	Unit	Biological Reference interval	
	KIDNE	EY FUNCTION	TEST (COMPLETE)		
UREA: SERUM	/ATE DEHYDROGENASE (GLDH)	17.56	mg/dL	10.00 - 50.00	
CREATININE: SER		0.94	mg/dL	0.40 - 1.20	
BLOOD UREA NITH	ROGEN (BUN): SERUM	8.21	mg/dL	7.0 - 25.0	
RATIO: SERUM	ROGEN (BUN)/CREATININE	8.73 ^L	RATIO	10.0 - 20.0	
UREA/CREATININ	ECTROPHOTOMETRY E RATIO: SERUM ECTROPHOTOMETRY	18.68	RATIO		
URIC ACID: SERUM	1	3.79	mg/dL	2.50 - 6.80	
CALCIUM: SERUM	ECTROPHOTOMETRY	8.73	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SI		2.56	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM	/E ELECTRODE)	141.8	mmol/L	135.0 - 150.0	
POTASSIUM: SERU	М	3.99	mmol/L	3.50 - 5.00	
CHLORIDE: SERUN by ISE (ION SELECTIV	/E ELECTRODE)	106.35	mmol/L	90.0 - 110.0	
ESTIMATED GLON	MERULAR FILTERATION RATE				
(eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	75.8			
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.

3. GI haemorrhage.



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	:01521838			COLLECTION DAT				
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CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBA	ALA CANTT					
Test Name			Value	Un	nit	Biolog	gical Refere	ence interv
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr	a (BUN rises disp superimposed c I 0:1) WITH DECR osis.	TED CREATININE LEVE roportionately more t n renal disease.		ne) (e.g. obstructive	e uropathy).			
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2	10:1) WITH ELEVA a (BUN rises disp superimposed c superimposed c osis. ad starvation. creased urea syl urea rather that monemias (urea of inappropiate a loc1) WITH INCRI py (accelerates) eleases muscle who develop re : sis (acetoacetat creased BUN/cro- apy (interferes v JLAR FILTERATIO Nor Ki Nor	TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : In thesis. In creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. E causes false increase extinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR	han creatinir ut of extrace blood). due to tubula to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90 >90	a. thodologies ASSOCI		5	vhen dehydi
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there ESTIMATED GLOMERI G1 G2 G3a G3a G3b	10:1) WITH ELEVA a (BUN rises disp superimposed c superimposed c osis. ad starvation. creased urea syl urea rather that monemias (urea of inappropiate a 10:1) WITH INCRI py (accelerates of eleases muscle of who develop re : sis (acetoacetat creased BUN/cro- apy (interferes v IAR FILTERATIO Nor Ki Nor Ki Nor	TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : In thesis. In creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. Exact causes false increase eatinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with	han creatinir ut of extrace blood). due to tubula to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90 >90 60 -89 30-59	a. thodologies ASSOCI	resulting in no ATED FINDINGS proteinuria ice of Protein ,	5	vhen dehydi
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	0:1) WITH ELEVA a (BUN rises disp superimposed c superimposed c osis. ad starvation. creased urea syl urea rather that monemias (urea of inappropiate a loc1) WITH INCRI py (accelerates of eleases muscle of who develop re : sis (acetoacetat creased BUN/cro- apy (interferes v IAR FILTERATIO Nor Ki Mid Mid Mod	TED CREATININE LEVE roportionately more t n renal disease. EASED BUN : In creatinine diffuses of is virtually absent in ntidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR Id decrease in GFR	han creatinir ut of extrace blood). due to tubula to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2) >90 >90 60 -89	a. thodologies ASSOCI	resulting in no ATED FINDINGS proteinuria ice of Protein ,	5	vhen dehydi



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	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology) MD	n Chopra D (Pathology) ht Pathologist
NAME	: Mrs. ANCHAL GUGLANI		
AGE/ GENDER	: 46 YRS/FEMALE	PATIENT ID	: 1687933
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412020021
REFERRED BY	:	REGISTRATION DATE	: 02/Dec/2024 10:14 AM
BARCODE NO.	:01521838	COLLECTION DATE	: 02/Dec/2024 10:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Dec/2024 12:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
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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	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mrs. ANCHAL GUGLANI				
AGE/ GENDER	: 46 YRS/FEMALE	РАТ	TENT ID	: 1687933	
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	:012412020021	
REFERRED BY	:	REG	ISTRATION DATE	: 02/Dec/2024 10:14 AM	
BARCODE NO.	:01521838	COL	LECTION DATE	: 02/Dec/2024 10:45AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 02/Dec/2024 12:20PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,				
Test Name		Value	Unit	Biological Reference	interval
TRIIODOTHYRONI		IYROID FUNCTIO 0.493	N TEST: TOTAL ng/mL	0.35 - 1.93	
	NE (13): SERUM IESCENT MICROPARTICLE IMMUNOA		ng/ mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immunoa	9.06 SSAY)	µgm/dL	4.87 - 12.60	
THYROID STIMULA	ATING HORMONE (TSH): SERU	JM 9.142 ^H	µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT					
INTERPRETATION:					
				m. The variation is of the order of 50%.Hen netabolically active hormones, thyroxine (1	
triiodothyronine (T3).Fai				er underproduction (hypothyroidism) or	
			Τ4	TSH	
Primary Hypothyroidis				ncreased (Significantly)	
3 31 3		Normal Norm	al or Low Normal	High	
Subclinical Hypothyroi					
Primary Hyperthyroidis		Ir	ncreased F	Reduced (at times undetectable)	

LIMITATIONS:-

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

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

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

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

TRIIODOTHYRONINE (T3)		THYROX	(INE (T4)	THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)	
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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NAME	: Mrs. ANCHAL GUGLANI		
AGE/ GENDER	: 46 YRS/FEMALE	PATIENT ID	: 1687933
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412020021
REFERRED BY	:	REGISTRATION DATE	: 02/Dec/2024 10:14 AM
BARCODE NO.	: 01521838	COLLECTION DATE	: 02/Dec/2024 10:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Dec/2024 12:20PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	VTT	

Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECO	MMENDATIONS OF TSH LI	VELS 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
	URINE ROU	UTINE & MICROSCOP	IC EXAMINA	ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEVE	ED ANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		PALE YELLOW		PALE YELLOW
TRANSPARANCY	ANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY		>=1.030		1.002 - 1.030
CHEMICAL EXAMIN	ANCE SPECTROPHOTOMETRY JATION			
REACTION	ANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
рН		5.5		5.0 - 7.5
BILIRUBIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
UROBILINOGEN	ANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	ANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY MINATION	NEGATIVE (-ve)		NEGATIVE (-ve)
RED BLOOD CELLS		NEGATIVE (-ve)	/HPF	0 - 3



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

NAME	: Mrs. ANCHAL GUGLANI			
AGE/ GENDER	: 46 YRS/FEMALE	Р	ATIENT ID	: 1687933
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		10-12	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	10 12	,	0 0	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	6-8	/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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