



	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consult	crobiology)	Dr. Yugam Ch MD (Path CEO & Consultant Path	hology)
NAME	: Mrs. NIKITA SAINI			
AGE/ GENDER	: 32 YRS/FEMALE	PATI	ENT ID : 1	1635992
COLLECTED BY	: SURJESH	REG.	NO./LAB NO. :	012410060022
REFERRED BY	:	REGI	STRATION DATE : (06/Oct/2024 10:35 AM
BARCODE NO.	: 01518403			07/Oct/2024 07:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE : (06/Oct/2024 10:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA WELLNI	ESS PANEL: GT	
	CO	MPLETE BLOOD	COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.7 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB		3.68	Millions/cmm	3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE IE (PCV)	33.4 ^L	%	37.0 - 50.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULA	R VOLUIVIE (MCV) UTOMATED HEMATOLOGY ANALYZER	90.8	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	29.1	pg	27.0 - 34.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.2	%	11.00 - 16.00
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	48.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		24.67	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	35.07	RATIO	BETA THALASSEMIA TRAIT:<= 65. IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>5 (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ′ by sf cube & microscopy	10910	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	67	%	50 - 70





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. NIKITA SAINI AGE/ GENDER : 32 YRS/FEMALE **PATIENT ID** :1635992 **COLLECTED BY** : SURJESH :012410060022 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :06/0ct/2024 10:35 AM : **BARCODE NO.** :01518403 **COLLECTION DATE** :07/Oct/2024 07:40AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :06/Oct/2024 10:57AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 22 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 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 7310 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 2400 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 40 - 440 546^H /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 655 /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) /cmm 150000 - 450000 149000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.24 0.10 - 0.36 PLATELETCRIT (PCT) % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 16^H **MEAN PLATELET VOLUME (MPV)** fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 107000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 11.0 - 45.0 PLATELET LARGE CELL RATIO (P-LCR) 71.7^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.5 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Oct/2024 12:13PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HA	EMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HbA1c):	4.9	%	4.0 - 6.4
ESTIMATED AVERAGI		93.93	mg/dL	60.00 - 140.00
	AS PER AMERICAN	DIABETES ASSOCI	ATION (ADA):	
	REFERENCE GROUP		YCOSYLATED HEMOGLOGIB	(HBAIC) in %
Non di	abetic Adults >= 18 years	1	<5.7	
	t Risk (Prediabetes)		5.7 – 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
			of Therapy:	< 7.0
Therapeut	ic goals for glycemic control	Action	s Suggested:	>8.0
			Age < 19 Years	
		Goal	of therapy:	<7.5

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

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 appropriate.

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 falsely 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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BARCODE NO.	: 01518403		COLLECTION DATE	: 07/Oct/2024 07:40AM
LIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	:06/Oct/2024 11:10AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	FDVTU			N
			VENTATION RATE (ESR	
	/IENTATION RATE (ESR) Gation by capillary photometry	18	mm/1st hr	0 - 20
As C-reactive protein B. This test may also Systemic lupus erythe CONDITION WITH LOV A low ESR can be see polycythaemia), sign is sickle cells in sickl NOTE: . ESR and C - reactive B. CRP is not affected I. If the ESR is elevated 5. Women tend to ha b. Drugs such as dext	be used to monitor disease activity matosus W ESR in with conditions that inhibit the r ificantly high white blood cell cou e cell anaemia) also lower the ESF e protein (C-RP) are both markers of s not change as rapidly as does CR by as many other factors as is ESR, ed, it is typically a result of two typ ve a higher ESR, and menstruation	y and response t normal sediment int (leucocytosis) R. of inflammation. P, either at the s making it a bett cand proteins, g and prognancy of	o therapy in both of the ab ation of red blood cells, su) , and some protein abnor start of inflammation or as ter marker of inflammation. globulins or fibrinogen. an cause temporary elevat	malities. Some changes in red cell shape (such it resolves.





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BARCODE NO.	: 01518403	C	OLLECTION DATE	:07/Oct/202407:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:06/Oct/2024 12:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMIST	RY/BIOCHEMISTR	Y
		GLUCOSE F	ASTING (F)	
GLUCOSE FASTING (F by glucose oxidas	F): PLASMA E - PEROXIDASE (GOD-POD)	87.01	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
HOLESTEROL TOTA		229.81 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O	KIDASE PAP			BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 24
RIGLYCERIDES: SEF	RUM PHATE OXIDASE (ENZYMATIC)	151.9 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT). SERUM	53.23	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBIT		00.20	ing, at	BORDERLINE HIGH HDL: 30.0 - 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL: : by CALCULATED, SPI		146.2 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 15 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPL		176.58 ^H	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
/LDL CHOLESTEROL:	SERUM	30.38	mg/dL	0.00 - 45.00
by CALCULATED, SPE	сткорнотометку М	611.52	mg/dL	350.00 - 700.00
by CALCULATED, SPE HOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	4.32	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
DL/HDL RATIO: SER by calculated, spe		2.75	RATIO	HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:06/Oct/2024 12:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.85 ^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
	LIV	ER FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.41	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.29	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	30.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	31.8	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.97	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	75.74	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM PHTOMETRY	31.68	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	RUM	6.71	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.22	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.49	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPE		1.69	RATIO	1.00 - 2.00

INTERPRETATION NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

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:

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
	кі	DNEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		18.15	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.71	mg/dL	0.40 - 1.20
•)GEN (BUN): SERUM	8.48	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
	OGEN (BUN)/CREATININE	11.94	RATIO	10.0 - 20.0
RATIO: SERUM by calculated, spe	ECTROPHOTOMETRY			
UREA/CREATININE F	RATIO: SERUM	25.56	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	3.36	ma/dl	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE	3.30	mg/dL	2.50 - 0.80
CALCIUM: SERUM		9.2	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		3.17	ma/dl	2 20 4 70
PHOSPHOROUS: SEF by phosphomolybl	OIVI DATE, SPECTROPHOTOMETRY	3.17	mg/dL	2.30 - 4.70
ELECTROLYTES				
sodium: serum		136.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.20	mm ol //	2 50 5 00
POTASSIUM: SERUN by ISE (ION SELECTIV		4.29	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		102.15	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)			
		117 0		
egfr): Serum	RULAR FILTERATION RATE	117.8		
by CALCULATED				

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)	Yugam Chopra MD (Pathology) onsultant Pathologist	
NAME	: Mrs. NIKITA SAINI			
AGE/ GENDER	: 32 YRS/FEMALE	PATIENT ID	: 1635992	
COLLECTED BY	: SURJESH	REG. NO./LAB NO		160099
	. SURJESH			
REFERRED BY	:	REGISTRATION I		024 10:35 AM
BARCODE NO.	: 01518403	COLLECTION DAT	FE : 07/Oct/20	024 07:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	: 06/Oct/20	024 12:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value Ur	nit Bi	iological Reference interval
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	ass (subnormal creatinine produ tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE (BUN rises disproportionately m superimposed on renal disease.		re uropathy).	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients o INAPPROPIATE RATIO 1. Diabetic ketoacidos should produce an ino 2. Cephalosporin ther ESTIMATED GLOMERU	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE (BUN rises disproportionately m superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. creased urea synthesis. urea rather than creatinine diffu- monemias (urea is virtually absection of crea- f inappropiate antidiuretic harm 0:1) WITH INCREASED CREATININ by (accelerates conversion of crea- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in- creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE: DESCRIPTION	E LEVELS: nore than creatinine) (e.g. obstructiv uses out of extracellular fluid). ent in blood). none) due to tubular secretion of ure lE: eatine to creatinine). crease in creatinine with certain me measurement). GFR (mL/min/1.73m2)	a. thodologies,resulting	DINGS
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of deu 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients v INAPPROPIATE RATIO 1. Diabetic ketoacido: should produce an ind 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE (BUN rises disproportionately m superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. creased urea synthesis. urea rather than creatinine diffu monemias (urea is virtually abse f inappropiate antidiuretic harm 0:1) WITH INCREASED CREATININ oy (accelerates conversion of creatinine). who develop renal failure. sis (acetoacetate causes false in- creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE: DESCRIPTION Normal kidney functional	E LEVELS: hore than creatinine) (e.g. obstructive uses out of extracellular fluid). ent in blood). hone) due to tubular secretion of ure lE: eatine to creatinine). crease in creatinine with certain me heasurement). GFR (mL/min/1.73m2) tion >90	a. thodologies,resulting ASSOCIATED FINE No proteinur	DINGS ia
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis (6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients o INAPPROPIATE RATIO 1. Diabetic ketoacidos should produce an ino 2. Cephalosporin ther ESTIMATED GLOMERU	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE (BUN rises disproportionately m superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. creased urea synthesis. urea rather than creatinine diffu monemias (urea is virtually abse f inappropiate antidiuretic harm 0:1) WITH INCREASED CREATININ by (accelerates conversion of creatinine). who develop renal failure. sis (acetoacetate causes false in- creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	E LEVELS: hore than creatinine) (e.g. obstructive uses out of extracellular fluid). ent in blood). hone) due to tubular secretion of ure lE: eatine to creatinine). crease in creatinine with certain me heasurement). GFR (mL/min/1.73m2) tion >90 th >90	a. hthodologies,resulting ASSOCIATED FINE No proteinur Presence of Prot	DINGS ia tein ,
 P. Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necro Low protein diet ar Severe liver disease Other causes of der Repeated dialysis (Inherited hyperami SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide thera Muscular patients of Muscular patients of Cephalosporin ther ESTIMATED GLOMERU G1 	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE (BUN rises disproportionately m superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. creased urea synthesis. urea rather than creatinine diffu monemias (urea is virtually abse f inappropiate antidiuretic harm 0:1) WITH INCREASED CREATININ oy (accelerates conversion of creatinine). who develop renal failure. sis (acetoacetate causes false in- creased BUN/creatinine ratio). apy (interferes with creatinine m LAR FILTERATION RATE: DESCRIPTION Normal kidney functional	E LEVELS: hore than creatinine) (e.g. obstructive uses out of extracellular fluid). ent in blood). hone) due to tubular secretion of ure lE: eatine to creatinine). crease in creatinine with certain me heasurement). GFR (mL/min/1.73m2) tion >90 th >90 R	a. thodologies,resulting ASSOCIATED FINE No proteinur	DINGS ia tein ,
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REFERRED BY	:	REGISTRATION DATE	: 06/Oct/2024 10:35 AM
BARCODE NO.	:01518403	COLLECTION DATE	: 07/Oct/2024 07:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 06/Oct/2024 12:07PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA 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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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:06/Oct/202403:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCI	RINOLOGY	
	ТНҮ	ROID FUNC	TION TEST: TOTAL	
TRIIODOTHYRONINE	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY	1.682	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMI IMMUNOASSAY)	RUM NESCENT MICROPARTICLE	12.61 ^H	µgm/dL	4.87 - 12.60
THYROID STIMULAT	ING HORMONE (TSH): SERUM	4.016	μlU/mL	0.35 - 5.50

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.

TRIIODOTHYRONINE (T3)		THYROXI	NE (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

rest warne			value	Unit		Biological Reference Intervi
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 PREGN	IANCY (µIU/mL)		
	1st Trimester			0.10 – 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester



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Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
	URINE RC	OUTINE & MICROSCO	PIC EXAMINAT	TION
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		AMBER YELLOW		PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	OLLAN		ULLAN
SPECIFIC GRAVITY		1.01		1.002 - 1.030
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	ACIDIO		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
рН		6		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-Ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC UROBILINOGEN	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	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-VE)
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION

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MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs)	NEGATIVE (-ve)	/HPF	0 - 3	
	CENTRIFUGED URINARY SEDIMENT				
		1-3	/HPF	0 - 5	
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT CENTRIFUGED URINARY SEDIMENT	1-3 2-4	/HPF /HPF	0 - 5 ABSENT	
by MICROSCOPY ON C EPITHELIAL CELLS by MICROSCOPY ON C CRYSTALS	CENTRIFUGED URINARY SEDIMENT				

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

ABSENT



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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT