



	<b>Dr. Vinay Chopr</b> MD (Pathology & Micr Chairman & Consultar	robiology)		Yugam Cho MD (Pathol nsultant Pathol	logy)
NAME	: Mrs. PRABHA				
AGE/ GENDER	: 55 YRS/FEMALE		PATIENT ID	: 15	53346
COLLECTED BY	:		REG. NO./LAB NO.	. :04	2407180012
<b>REFERRED BY</b>	:		<b>REGISTRATION D</b>	ATE : 18	/Jul/2024 03:36 PM
BARCODE NO.	: A0433666		COLLECTION DAT	<b>E</b> :18	/Jul/2024 03:42PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		<b>REPORTING DATE</b>	E : 18.	/Jul/2024 03:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	Г		
Test Name		Value	Uni	hit	Biological Reference interval
	SWAS	THYA W		.: 1.2	
	CON	IPLETE BL	OOD COUNT (CB	C)	
RED BLOOD CELLS (RB	CS) COUNT AND INDICES		·		
HAEMOGLOBIN (HB)		11 <sup>L</sup>	gm	n/dL	12.0 - 16.0
<i>by Calorimetric</i> RED BLOOD CELL (RBC		4.43	Mil	illions/cmm	3.50 - 5.00
by HYDRO DYNAMIC FO PACKED CELL VOLUME	CUSING, ELECTRICAL IMPEDENCE	24	%		37.0 - 50.0
	TOMATED HEMATOLOGY ANALYZER	36.4 <sup>L</sup>			
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer		82.3	fL		80.0 - 100.0
MEAN CORPUSCULAR	HAEMOGLOBIN (MCH)	24.8 <sup>L</sup>	pg		27.0 - 34.0
MEAN CORPUSCULAR	ITOMATED HEMATOLOGY ANALYZER HEMOGLOBIN CONC. (MCHC)	30.1 <sup>L</sup>	g/a	dL	32.0 - 36.0
RED CELL DISTRIBUTION		16.8 <sup>H</sup>	%		11.00 - 16.00
by CALCULATED BY AU RED CELL DISTRIBUTIO	<b>TOMATED HEMATOLOGY ANALYZER</b> ON WIDTH (RDW-SD)	51.4	fL		35.0 - 56.0
by CALCULATED BY AU	TOMATED HEMATOLOGY ANALYZER				
MENTZERS INDEX		18.58	RA	ATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		31.17	RA	ATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED					
WHITE BLOOD CELLS	(WBCS)				IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE CO		6770	/cn	mm	4000 - 11000
NUCLEATED RED BLOO	DD CELLS (nRBCS)	NIL			0.00 - 20.00
by CALCULATED BY AU MICROSCOPY	TOMATED HEMATOLOGY ANALYZER &				
NUCLEATED RED BLOO by CALCULATED BY AU MICROSCOPY	DD CELLS (nRBCS) % <i>TOMATED HEMATOLOGY ANALYZER</i> &	NIL	%		< 10 %
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>				



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. PRABHA **AGE/ GENDER** : 55 YRS/FEMALE **PATIENT ID** :1553346 **COLLECTED BY** :042407180012 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 18/Jul/2024 03:36 PM **BARCODE NO. COLLECTION DATE** :18/Jul/2024 03:42PM : A0433666 CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 18/Jul/2024 03:56PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name 64 % 50 - 70 **NEUTROPHILS** by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 27 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 4 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % **BASOPHILS** 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4333 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1828 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 338 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 271 80 - 880 ABSOLUTE MONOCYTE COUNT /cmm 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. 150000 - 450000 PLATELET COUNT (PLT) 241000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.27 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 11 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 85000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 35.2 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.3 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra

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NAME	: Mrs. PRABHA		
AGE/ GENDER	: 55 YRS/FEMALE	PATIENT ID	: 1553346
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMENTATION RATE (ES	R)
	MENTATION RATE (ESR)	75 <sup>H</sup> mm/1st	hr 0 - 20
1. ESR is a non-speci immune disease, but	t does not tell the health practition ected by other conditions besides n	her exactly where the inflammation is in the inflammation. For this reason, 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

### NOTE:

1. ESR and C - reactive protein (C-RP) are both markers of inflammation. 2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CI	Value		-
Test Name	CI		//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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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAI	REPO	RTING DATE	: 18/Jul/2024 04:34PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		LIPID PROFILE	: BASIC		
CHOLESTEROL TOTA by CHOLESTEROL OX		219.14 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 24	
TRIGLYCERIDES: SER by GLYCEROL PHOSE	UM HATE OXIDASE (ENZYMATIC)	165.96 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0	
HDL CHOLESTEROL ( by selective inhibiti		56.51	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0	
DL CHOLESTEROL: S by CALCULATED, SPE		129.44	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0	
NON HDL CHOLESTE by CALCULATED, SPE		162.63 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0	
/LDL CHOLESTEROL: by calculated, spe		33.19	mg/dL	0.00 - 45.00	
OTAL LIPIDS: SERUN by CALCULATED, SPE	N	604.24	mg/dL	350.00 - 700.00	
CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	3.88	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0	
.DL/HDL RATIO: SER by calculated, spe		2.29	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	2.94 <sup>L</sup>	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 FUNCTION	I TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.79	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		mg/dL	0.00 - 0.40
	(UNCONJUGATED): SERUM	0.45	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	111.46 <sup>H</sup>	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	81.47 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE		1.37	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM yl phosphatase by amino methyl	114	U/L	40.0 - 150.0
GAMMA GLUTAMYI by szasz, spectro	TRANSFERASE (GGT): SERUM	66 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO	RUM	8	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.3	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.7 <sup>H</sup>	gm/dL	2.30 - 3.50

Dr. Vinay Chopra

#### A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

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)

1.16





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RATIO

1.00 - 2.00

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Test Name	N N	/alue   Init	Biological Reference interval

Test Name	Value	Unit	<b>Biological Reference interval</b>

#### 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
	KI	ONEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		16.89	mg/dL	10.00 - 50.00
•	NATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.67	mg/dL	0.40 - 1.20
BLOOD UREA NITRO	) GEN (BUN): SERUM	7.89 <sup>L</sup>	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY			
	OGEN (BUN)/CREATININE	11.78	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE I		25.21	RATIO	
	ECTROPHOTOMETRY	<i>.</i> .		0.50 ( 00
URIC ACID: SERUM by URICASE - OXIDAS	SE PEROXIDASE	6.4	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.11	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		0.07	- / II	0.00 1.70
PHOSPHOROUS: SEF	{UIVI DATE, SPECTROPHOTOMETRY	2.87	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		140.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN by ISE (ION SELECTIV		4.85	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	ie elėvikude)	105.23	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)	100.20		,
ESTIMATED GLOME	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	103.2		
(eGFR): SERUM by CALCULATED				

Dr. Vinay Chopra

# 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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	,	,			
Test Name		Value	Unit	Biological R	Reference interval
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> </ol>	(e.g. ureter colostomy) ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>10:1) WITH ELEVATED CREATININ</b> (BUN rises disproportionately	IE LEVELS: more than creatinine	(e.g. obstructive u	ropathy).	
<ol> <li>Reduced muscle m Certain drugs (e.g. NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>PCREASED RATIO (</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> </ol>	ass (subnormal creatinine prod tetracycline, glucocorticoids) (0:1) WITH ELEVATED CREATININ (BUN rises disproportionately superimposed on renal disease (0:1) WITH DECREASED BUN : osis. nd starvation.	IE LEVELS: more than creatinine	(e.g. obstructive u	ropathy).	
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>PCREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> </ol>	ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATININ</b> a (BUN rises disproportionately superimposed on renal disease <b>10:1) WITH DECREASED BUN :</b> osis. and starvation. e. creased urea synthesis. furea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr	IE LEVELS: more than creatinine fuses out of extracelli sent in blood). mone) due to tubular	ılar fluid).	ropathy).	
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>PCREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>PCREASED RATIO (</li> </ol>	ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>(0:1) WITH ELEVATED CREATININ</b> a (BUN rises disproportionately superimposed on renal disease <b>(0:1) WITH DECREASED BUN :</b> osis. and starvation. e. creased urea synthesis. furea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr <b>(0:1) WITH INCREASED CREATINI</b> py (accelerates conversion of ci	IE LEVELS: more than creatinine fuses out of extracelli sent in blood). mone) due to tubular INE:	ular fluid). secretion of urea.	ropathy).	
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>PCREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome of Pregnancy.</li> <li>Pregnancy.</li> <li>PCREASED RATIO (</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> </ol>	ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>(0:1) WITH ELEVATED CREATININ</b> a (BUN rises disproportionately superimposed on renal disease <b>(0:1) WITH DECREASED BUN :</b> osis. nd starvation. e. creased urea synthesis. furea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr <b>(0:1) WITH INCREASED CREATINI</b> py (accelerates conversion of ci eleases muscle creatinine).	IE LEVELS: more than creatinine fuses out of extracelli sent in blood). mone) due to tubular INE:	ular fluid). secretion of urea.	ropathy).	
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<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;'</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>Should produce an in</li> <li>Cephalosporin ther</li> </ol>	ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATININ</b> a (BUN rises disproportionately superimposed on renal disease <b>10:1) WITH DECREASED BUN :</b> osis. ad starvation. e. creased urea synthesis. (urea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr <b>10:1) WITH INCREASED CREATINI</b> py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine in <b>JLAR FILTERATION RATE:</b>	IE LEVELS: more than creatinine fuses out of extracelle eent in blood). mone) due to tubular INE: reatine to creatinine) ncrease in creatinine measurement).	ular fluid). secretion of urea. with certain metho	bdologies,resulting in normal	ratio when dehydratio
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.,</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Nabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>bould produce an in</li> <li>Cephalosporin ther</li> </ol>	ass (subnormal creatinine prod tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATININ</b> a (BUN rises disproportionately i superimposed on renal disease <b>10:1) WITH DECREASED BUN :</b> osis. ad starvation. e. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr <b>10:1) WITH INCREASED CREATINI</b> py (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine)	IE LEVELS: more than creatinine fuses out of extracellu- sent in blood). mone) due to tubular INE: reatine to creatinine) ncrease in creatinine measurement).	ular fluid). secretion of urea.		ratio when dehydratio

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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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microb Chairman & Consultant I	iology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mrs. PRABHA		
AGE/ GENDER	: 55 YRS/FEMALE	PATIENT ID	: 1553346
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 042407180012
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Jul/2024 03:36 PM
BARCODE NO.	: A0433667	COLLECTION DATE	: 18/Jul/2024 03:42PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	<b>REPORTING DATE</b>	: 18/Jul/2024 04:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	v	alue Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	Tł	HYROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINI		0.901	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	NESCENT MICROPARTICLE IMMUNOASS RUM NESCENT MICROPARTICLE IMMUNOASS	8.36	μgm/dL	4.87 - 12.60
	TING HORMONE (TSH): SERUM	9.276 <sup>H</sup>	μlU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the		stimulates the pr	roduction and secretion of the m	vm. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er 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)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range ( µIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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Test Name	Value	Unit	Biological Reference interval

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- 2.40 6 -	12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
- 2.28 1 -	10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
- 1.93 11	- 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
- 1.93 > 2	20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
RECOMMEN	DATIONS OF TSH LEV	VELS DURING PREGN	IANCY ( µIU/mL)		
st Trimester			0.10 - 2.50		
nd Trimester			0.20 - 3.00		
d Trimester			0.30 - 4.10		
	- 2.28 1 - - 1.93 11 - 1.93 > 2	- 2.28         1 - 10 Years           - 1.93         11 - 19 Years           - 1.93         > 20 Years (Adults)           RECOMMENDATIONS OF TSH LET           st Trimester           ad Trimester	- 2.28       1 - 10 Years       6.00 - 13.80         - 1.93       11 - 19 Years       4.87-13.20         - 1.93       > 20 Years (Adults)       4.87 - 12.60         RECOMMENDATIONS OF TSH LEVELS DURING PREGNEST Trimester       ad Trimester	- 2.28         1 - 10 Years         6.00 - 13.80         1 - 10 Years           - 1.93         11 - 19 Years         4.87 - 13.20         11 - 19 Years           - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)           RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( μIU/mL)         0.10 - 2.50         0.10 - 2.50           Id Trimester         0.20 - 3.00         0.20 - 3.00	- 2.28         1 - 10 Years         6.00 - 13.80         1 - 10 Years         0.60 - 5.50           - 1.93         11 - 19 Years         4.87 - 13.20         11 - 19 Years         0.50 - 5.50           - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)         0.35 - 5.50           - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)         0.35 - 5.50           RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL)         0.10 - 2.50         0.10 - 2.50           rd Trimester         0.20 - 3.00         0.20 - 3.00

#### 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
	URINE RO	UTINE & MICROSCO	PIC EXAMINAT	ΓΙΟΝ
<b>PHYSICAL EXAMINA</b>	TION			
QUANTITY RECIEVE		10	ml	
	CTANCE SPECTROPHOTOMETRY	10		
COLOUR		PALE YELLOW		PALE YELLOW
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	GLEAR		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION	CTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
SUGAR		Negative		NEGATIVE (-ve)
pH	CTANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
1	CTANCE SPECTROPHOTOMETRY	U		0.0 7.0
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Nogativa		
	CTANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
	CTANCE SPECTROPHOTOMETRY	Negetius		
KETONE BODIES by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	CTANCE SPECTROPHOTOMETRY	0		
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
	CTANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NANGE





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

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

NAME	: Mrs. PRABHA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT	
Test Name		Value Unit	Biological Reference interval
			0 0

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

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





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