



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)	MD	n Chopra 9 (Pathology) t Pathologist
AGE/ GENDER: 52 YCOLLECTED BY: SURJREFERRED BY:BARCODE NO.: 0152CLIENT CODE.: KOS			PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1682431 : 012411260013 : 26/Nov/2024 10:24 AM : 26/Nov/2024 11:04AM : 26/Nov/2024 11:30AM
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCS	COMP	LETE BLO	LLNESS PANEL: 1. DOD COUNT (CBC)	12.0 - 16.0
HAEMOGLOBIN (HB) by CALORIMETRIC		10.9 ^L	gm/dL	
RED BLOOD CELL (RBC) C by hydro dynamic focusing		3.79	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLUME (P by CALCULATED BY AUTOMAT		34.7 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR VOL	LUME (MCV)	91.6	fL	80.0 - 100.0
by CALCULATED BY AUTOMAT	EMOGLOBIN (MCH)	28.8	pg	27.0 - 34.0
	MOGLOBIN CONC. (MCHC)	31.4 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMAT RED CELL DISTRIBUTION	WIDTH (RDW-CV)	14.7	%	11.00 - 16.00
by CALCULATED BY AUTOMAT RED CELL DISTRIBUTION	WIDTH (RDW-SD)	50.1	fL	35.0 - 56.0
by CALCULATED BY AUTOMAT MENTZERS INDEX by CALCULATED	ED HEMATOLOGY ANALYZER	24.17	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated		35.58	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
<u>WHITE BLOOD CELLS (W</u> TOTAL LEUCOCYTE COUN		7650	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF (CUBE & MICROSCOPY		/ chill	
NUCLEATED RED BLOOD by automated 6 part hema		NIL		0.00 - 20.00
NUCLEATED RED BLOOD	CELLS (nRBCS) %	NIL	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. REETA		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1682431
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	62	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	33	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4743	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2524	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	153	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	230	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	221000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.27	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	12 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	93000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	42.2	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.3	%	15.0 - 17.0



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	MD (Pat	nay Chopra thology & Microbiology) an & Consultant Pathologist		(Pathology)
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Test Name		Value	Unit	Biological Reference interval
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-speci- mmune disease, but	DIMENTATION RATE GATION BY CAPILLARY PH ic test because an eleva does not tell the health	(ESR) 6 otometry ted result often indicates practitioner exactly when	e the inflammation is in the	hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it.
by RED CELL AGGRE NTERPRETATION: 1. ESR is a non-speci mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see	DIMENTATION RATE GATION BY CAPILLARY PH ic test because an eleva does not tell the health cted by other conditions be used to monitor dise ematosus W ESR n with conditions that in	(ESR) 6 otoMETRY ted result often indicates practitioner exactly where s besides inflammation. Fo ase activity and response	mm/1st the presence of inflammat e the inflammation is in the r this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s	hr 0 - 20





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		Chopra / & 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
	CLIN	ICAL CHEMISTRY	//BIOCHEMIST	'RY
		GLUCOSE FAS	STING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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. 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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Test Name		Value	Unit	Biological Reference interval
			E. DACIC	
		LIPID PROFIL		
CHOLESTEROL TO' by CHOLESTEROL O>		145.45	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)	79.92	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM 10N	34.93	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		94.54	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES by CALCULATED, SPE		110.52	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(15.98	mg/dL	0.00 - 45.00
by CALCOLATED, SPE TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	370.82	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	4.16	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		2.71	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	2.29 ^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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Unit

MD (Pathology)

:1682431

:012411260013

: 26/Nov/2024 10:24 AM

: 26/Nov/2024 11:04AM

: 26/Nov/2024 12:26PM

Biological Reference interval

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. REETA AGE/ GENDER : 52 YRS/FEMALE **PATIENT ID COLLECTED BY** : SURJESH REG. NO./LAB NO. **REFERRED BY** : **REGISTRATION DATE BARCODE NO.** :01521462 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value

LIVER	FUNCTION TEST (CO	MPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.36	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.22	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	16.45	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	12.94	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.27	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	68.02	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	9.75	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.29	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.34	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by Calculated, spectrophotometry	2.95	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.47	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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NAME





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Test Name		Value Unit	Biological Reference interval

DECREASED:

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

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

PROGNOSTIC SIGNIFICANCE:

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



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	KIDNI	EY FUNCTION	N TEST (COMPLETE)	
UREA: SERUM		18.39	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)		U U	
CREATININE: SER		0.77	mg/dL	0.40 - 1.20
	ROGEN (BUN): SERUM	8.59	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY			
BLOOD UREA NITH RATIO: SERUM	ROGEN (BUN)/CREATININE	11.16	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININ		23.88	RATIO	
URIC ACID: SERUM	ECTROPHOTOMETRY 1	3.84	mg/dL	2.50 - 6.80
by URICASE - OXIDAS		0.01	-	2.00 0.00
CALCIUM: SERUM by ARSENAZO III, SPE		9.54	mg/dL	8.50 - 10.60
PHOSPHOROUS: SI		2.82	mg/dL	2.30 - 4.70
by PHOSPHOMOLYB	DATE, SPECTROPHOTOMETRY		0	
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		142.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.31	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN	,	100.00	1.4	00.0.110.0
CHLORIDE: SERUN by ISE (ION SELECTIV		106.88	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RATE			
	IERULAR FILTERATION RATE	92.8		
(eGFR): SERUM				
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.

3. GI haemorrhage.



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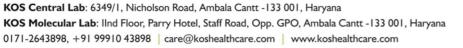


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Test Name			Value	Unit	Biologica	al Reference interval
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o	TED CREATININE LEVE roportionately more t n renal disease.		structive uropa	athy).	
NCREASED 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 NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI 0. KD STAGE	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR osis. ad starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop ren sis (acetoacetate creased BUN/cro rapy (interferes of JLAR FILTERATIO	acocorticoids) ITED CREATININE LEVE roportionately more t in renal disease. EASED BUN : In thesis. In creatinine diffuses of its virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. the causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION	LS: han creatinine) (e.g. of ut of extracellular fluid blood). due to tubular secretio to creatinine). e in creatinine with cer rement).	I). n of urea. tain methodolo	ogies,resulting in norm SOCIATED FINDINGS	al ratio when dehydrati
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis Neperated dialysis Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Anuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERI CKD STAGE G1	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR osis. ad starvation. e. creased urea syr (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop real creased BUN/cro rapy (interferes v JLAR FILTERATIO	Accorticoids) ATED CREATININE LEVE roportionately more t in renal disease. EASED BUN : Acceatinine diffuses of is virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increas eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function	LS: han creatinine) (e.g. of ut of extracellular fluid blood). due to tubular secretio to creatinine). e in creatinine with cer rement). GFR (mL/min/1.7 >90	I). n of urea. tain methodolo 3m2) AS	ogies,resulting in norm SOCIATED FINDINGS No proteinuria	al ratio when dehydrati
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Anuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CED STAGE CKD STAGE G1 G2	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR osis. ad starvation. e. creased urea syr (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop ref sis (acetoacetate creased BUN/cro rapy (interferes v JLAR FILTERATIO	Accorticoids) ATED CREATININE LEVE roportionately more t in renal disease. EASED BUN : Acceatinine diffuses of is virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increas eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR	LS: han creatinine) (e.g. ob ut of extracellular fluid blood). due to tubular secretio to creatinine). e in creatinine with cer rement). GFR (mL/min/1.7 >90 >90	I). n of urea. tain methodolo 3m2) AS	ogies,resulting in norm SOCIATED FINDINGS	al ratio when dehydrati
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Anuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CED STAGE G1 G2 G3a	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR osis. ad starvation. e. creased urea syr (urea rather than imonemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop real creased BUN/creased sis (acetoacetate creased BUN/creased apy (interferes v JLAR FILTERATIO	Accordicoids) ATED CREATININE LEVE roportionately more t in renal disease. EASED BUN : Acceatinine diffuses of is virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increas eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR	LS: han creatinine) (e.g. ob ut of extracellular fluid blood). due to tubular secretio to creatinine). e in creatinine with cer rement). GFR (mL/min/1.7 >90 >90 60 -89	I). n of urea. tain methodolo 3m2) AS	ogies,resulting in norm SOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydrati
NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CED STAGE G1 G2 G3a G3a G3b	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR osis. ad starvation. e. creased urea syn (urea rather than imonemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop ren sis (acetoacetate creased BUN/cro apy (interferes v JLAR FILTERATIO Nor kin Model Model	Accordicoids) ATED CREATININE LEVE roportionately more t in renal disease. EASED BUN : Acceatinine diffuses of is virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increas eatinine ratio). with creatinine measu NRATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR erate decrease in GFR	LS: han creatinine) (e.g. ob ut of extracellular fluid blood). due to tubular secretio to creatinine). e in creatinine with cer rement). GFR (mL/min/1.7 >90 >90 60 -89 30-59	I). n of urea. tain methodolo 3m2) AS	ogies,resulting in norm SOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydrati
NCREASED RATIO (>2 . Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< . Acute tubular necr 2. Low protein diet and 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 7. Phenacimide thera 8. Muscular patients NAPPROPIATE RATIO . Diabetic ketoacido hould produce an in 8. Cephalosporin their STIMATED GLOMERI G1 G2 G3a	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR osis. ad starvation. e. creased urea syn (urea rather than imonemias (urea of inappropiate a 10:1) WITH INCRE py (accelerates of eleases muscle of who develop ren sis (acetoacetate creased BUN/cro apy (interferes v JLAR FILTERATIO Nor kin Model Model	Accordicoids) ATED CREATININE LEVE roportionately more t in renal disease. EASED BUN : Acceatinine diffuses of is virtually absent in intidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increas eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR	LS: han creatinine) (e.g. ob ut of extracellular fluid blood). due to tubular secretio to creatinine). e in creatinine with cer rement). GFR (mL/min/1.7 >90 >90 60 -89	I). n of urea. tain methodolo 3m2) AS	ogies,resulting in norm SOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydrat





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	Dr. Vinay Chopra MD (Pathology & Microt Chairman & Consultant	piology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. REETA		
AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1682431
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411260013
REFERRED BY	:	REGISTRATION DATE	: 26/Nov/2024 10:24 AM
BARCODE NO.	:01521462	COLLECTION DATE	: 26/Nov/2024 11:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 26/Nov/2024 12:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name		/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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		r Chopra ogy & Microbiology) Consultant Pathologi	M	I m Chopra ID (Pathology) ant Pathologist	
NAME	: Mrs. REETA				
AGE/ GENDER	: 52 YRS/FEMALE		PATIENT ID	: 1682431	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012411260013	
REFERRED BY	:		REGISTRATION DATE	: 26/Nov/2024 10:24 AM	
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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	OAD, AMBALA CANT	r		
Test Name		Value	Unit	Biological Reference inter	rval
		ENDOC	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTAL	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMU	0.825 INOASSAY)	ng/mI	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM IESCENT MICROPARTICLE IMMU	6.74 INOASSAY)	μgm/c	IL 4.87 - 12.60	
	TING HORMONE (TSH): S		μIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:		,			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentration	ons. TSH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time e metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or	
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal c	or Low Normal	Normal or Low Normal	High	

111	<i>ι</i> ιτΔ	TIO	NS:-

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.

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
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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AGE/ GENDER	: 52 YRS/FEMALE	PATIENT ID	: 1682431
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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	
	RECON	IMENDATIONS OF TSH LI	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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SO 9001 : 2008 CERT	IFIED LAB		EXCELLENCE IN HEALTHCARI	E & DIAGNOSTICS
	MD (P	/inay Chopra Pathology & Microbiology) man & Consultant Pathologi		(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
		CLINICAI	PATHOLOGY	
	U	RINE ROUTINE & MI	CROSCOPIC EXAMIN	ATION
PHYSICAL EXAMIN				
QUANTITY RECIEV	ED	10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			YELLOW	PALE YELLOW
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTO		TELLOW	FALE TELLOW
TRANSPARANCY	TANCE SPECTROPHOTO	CLEAR		CLEAR
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
by DIP STICK/REFLEC CHEMICAL EXAMI	TANCE SPECTROPHOTO	METRY		
REACTION	MATION	ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTO	METRY		
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTO	Negative METRY	9	NEGATIVE (-ve)
SUGAR		Negative	9	NEGATIVE (-ve)
pH	TANCE SPECTROPHOTO	<=5.0		5.0 - 7.5
	TANCE SPECTROPHOTO	METRY		
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTO	Negative METRY		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTO	Negative		NEGATIVE (-ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTO	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTO	TRACE		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTO	METRY NEGATI	VF (-ve)	NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTO			
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	2-4	/HPF	0 - 3

PHYSICA QUANTIT

by bir offorther recentioned of control from the			
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	AMBER YELLOW		PA
TRANSPARANCY	CLEAR		CL
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	OLEAR		U
SPECIFIC GRAVITY	<=1.005		1.0
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINATION			
REACTION	ACIDIC		
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
PROTEIN	Negative		NI
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NI
pH	<=5.0		5.0
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	<=0.0		0.0
BILIRUBIN	Negative		NI
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	0		
NITRITE	Negative		NI
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.	NT 1		0.4
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2
KETONE BODIES	Negative		NI
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	negative		111
BLOOD	TRACE		NI
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
ASCORBIC ACID	NEGATIVE (-ve)		NI
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
MICROSCOPIC EXAMINATION			
RED BLOOD CELLS (RBCs)	2-4	/HPF	0 -



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON O	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
EPITHELIAL CELLS	2	1-2	/HPF	ABSENT

EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/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)	ABSENT		ABSENT

** End Of Report ***





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