



Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan		obiology)		(Pathology)
NAME	: Mrs. MEGHA			
AGE/ GENDER	: 30 YRS/FEMALE		PATIENT ID	: 1709937
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412270005
REFERRED BY	:		REGISTRATION DATE	: 27/Dec/2024 10:25 AM
BARCODE NO.	: 01523066		COLLECTION DATE	: 27/Dec/2024 10:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 27/Dec/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.2	2
	COMP	LETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES		, , ,	
HAEMOGLOBIN (H	B)	12.4	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (DRC) COUNT	4.25	Millions/	′cmm 3.50 - 5.00
	OCUSING, ELECTRICAL IMPEDENCE	4.2.5		
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	38	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	89.4	fL	80.0 - 100.0
-	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	29.1	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.6	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	12.8	%	11.00 - 16.00
•	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	42.9	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED		21.04	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
OPPEN & VINC INF		00.05	DATE	
GREEN & KING IND by CALCULATED	DEX	26.85	RATIO	BETA THALASSEMIA TRAIT:< 65.0
				IRON DEFICIENCY ANEMIA: >
WHITE BLOOD CE	US (WRCS)			65.0
TOTAL LEUCOCYTE		7330	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		/ chill	
	LOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED B	LOOD CELLS (nRBCS) %	NIL	%	< 10 %
	UTOMATED HEMATOLOGY ANALYZER			





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

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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. MEGHA		
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT ID	: 1709937
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	:012412270005
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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	68	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	23	%	20 - 40
EOSINOPHILS by flow cytometry by SF cube & microscopy	3	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	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	4984	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1686	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by SF cube & microscopy	220	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	440	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	274000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.36 ^H	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	135000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	49.1 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.5	%	15.0 - 17.0





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Test Name	Valu	e Unit	Biological Reference interval



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IENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
by RED CELL AGGREG ITERPRETATION: ESR is a non-specifi nmune disease, but An ESR can be affec s C-reactive protein	DIMENTATION RATE (ESR) SATION BY CAPILLARY PHOTOMET c test because an elevated resi does not tell the health practit cted by other conditions beside be used to monitor disease action	ult often indicates the p ioner exactly where the es inflammation. For this	mm/1st resence of inflammat inflammation is in the s reason, the ESR is ty	hr 0 - 20





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CLIENT ADDRESS	: 6349/1, NICHOLSON I	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CI	LINICAL CHEMISTR	Y/BIOCHEMIST	'RY
		GLUCOSE FA:	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.

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	123.9	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		0	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				1000000000000000000000000000000000000
RIGLYCERIDES: S	ERUM	68.99	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
	L (DIRECT): SERUM	42.85	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBIT	ION			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROI		67.25	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.
				BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0
			() 7	VERY HIGH: $> OR = 190.0$
NON HDL CHOLEST by CALCULATED, SPE		81.05	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.
<i>»</i> , <i>«</i> , <i>»</i>				BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
LDL CHOLESTER	DL: SERUM	13.8	mg/dL	0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			
OTAL LIPIDS: SER by calculated, spe		316.79 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	2.89	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0



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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		1.57	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	1.61 ^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, SI	: SERUM PECTROPHOTOMETRY	0.45	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.31	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	17.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	21.9	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.8	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM yl phosphatase by amino methyl	69.07	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	12.12	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.85	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.08	gm/dL	3.50 - 5.50
GLOBULIN: SERUN	1	2.77	gm/dL	2.30 - 3.50
A : G RATIO: SERUI by CALCULATED, SPE	M	1.47	RATIO	1.00 - 2.00

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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INTERPRETATION





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DECREASED:

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

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

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



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	KIDNE	Y FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		22.78	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)		C	
CREATININE: SERU by ENZYMATIC, SPEC		0.73	mg/dL	0.40 - 1.20
	ROGEN (BUN): SERUM	10.64	mg/dL	7.0 - 25.0
by CALCULATED, SPE		1450		10.0 00.0
RATIO: SERUM	ROGEN (BUN)/CREATININE	14.58	RATIO	10.0 - 20.0
by CALCULATED, SPE				
UREA/CREATININ by CALCULATED, SPE		31.21	RATIO	
URIC ACID: SERUM		2.45 ^L	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE			0.50 10.00
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.89	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE	ERUM	3.38	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		141.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV			minoi/ L	
POTASSIUM: SERU		3.97	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	-	106.43	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	(E ELECTRODE)			
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	113.4		
(eGFR): SERUM by CALCULATED				
INTERPRETATION:				

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

 Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.
 Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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CLIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, AMB	ALA CANTT					
Test Name			Value	Unit	В	iological	Reference	e interva
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia 	tetracycline, gluo 0:1) WITH ELEVA (BUN rises dispr superimposed or	reatinine production cocorticoids) TED CREATININE LEV oportionately more n renal disease.	ELS:	e.g. obstructive ur	opathy).			
9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia	ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed or 0:1) WITH DECRE osis. Ind starvation. 2. creased urea syn urea rather than monemias (urea of inappropiate al 0:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w	thesis. creatinine production cocorticoids) TED CREATININE LEVI roportionately more in renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creating reatinine). hal failure. e causes false increase reatinine ratio). vith creatinine measu	ELS: than creatinine) (but of extracellula blood). due to tubular se e to creatinine). e in creatinine w	ar fluid). ecretion of urea. ith certain method	dologies,resulting		ratio wher	n dehydra
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Perenal azotemia DECREASED RATIO (<' Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pergnancy. Pregnancy. Peregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther 	ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. Ind starvation. 2. creased urea syn urea rather than monemias (urea of inappropiate al 0:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w ULAR FILTERATION	thesis. creatinine production cocorticoids) TED CREATININE LEVI roportionately more in renal disease. CREATININE thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creating reatinine). al failure. e causes false increase tatinine ratio). vith creatinine measu. J RATE: DESCRIPTION	ELS: than creatinine) (but of extracellula blood). due to tubular se e to creatinine). e in creatinine w rement).	ar fluid). cretion of urea. ith certain method	dologies,resulting	DINGS	ratio wher	n dehydra
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Perenal azotemia CECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. PECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STAGE 	ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. Id starvation. 2. creased urea syn urea rather than monemias (urea of inappropiate al 0:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w UAR FILTERATION Norr Kic	thesis. creatinine production cocorticoids) TED CREATININE LEVI roportionately more in renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creating reatinine). al failure. e causes false increase tratinine ratio). vith creatinine measu. J RATE: DESCRIPTION mal kidney function Iney damage with	ELS: than creatinine) (but of extracellula blood). due to tubular se e to creatinine). e in creatinine w rement). GFR (mL/m	ar fluid). Accretion of urea. ith certain method	dologies,resulting <u>ASSOCIATED FINI</u> <u>No proteinur</u> Presence of Pro	DINGS ria tein ,	ratio wher	n dehydra
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Diabetic ketoacido hould produce an in Cephalosporin ther STATED GLOMERL CKD STAGE G1 G2	ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. Id starvation. 2. creased urea syn urea rather than monemias (urea if inappropiate al 0:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w UAR FILTERATION Norr Kic Norr	thesis. creatinine production cocorticoids) TED CREATININE LEV roportionately more in renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creating reatinine). al failure. e causes false increase tratinine ratio). vith creatinine measu. J RATE: DESCRIPTION mal kidney function Iney damage with trmal or high GFR_	ELS: than creatinine) (but of extracellula blood). due to tubular se e to creatinine). e in creatinine w rement). GFR (mL/m >9	ar fluid). cretion of urea. ith certain method	dologies,resulting ASSOCIATED FINI No proteinur	DINGS ria tein ,	ratio wher	n dehydra
 P. Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther ESTIMATED GLOMERI G1 G2 	ass (subnormal c tetracycline, gluc 0:1) WITH ELEVA (BUN rises dispr superimposed of 0:1) WITH DECRE osis. Id starvation. 2. creased urea syn urea rather than monemias (urea if inappropiate an 0:1) WITH INCRE py (accelerates c eleases muscle c who develop ren : sis (acetoacetate creased BUN/cre apy (interferes w UAR FILTERATION Norr Kic nc	thesis. creatinine production cocorticoids) TED CREATININE LEV roportionately more in renal disease. EASED BUN : thesis. creatinine diffuses of is virtually absent in ntidiuretic harmone) ASED CREATININE: onversion of creating reatinine ratio). vith creatinine measu. IRATE: DESCRIPTION mal kidney function Iney damage with ormal or high GFR d decrease in GFR	ELS: than creatinine) (but of extracellula blood). due to tubular se e to creatinine). e in creatinine w rement). GFR (mL/m S S 60	ar fluid). cretion of urea. ith certain method	dologies,resulting <u>ASSOCIATED FINI</u> <u>No proteinur</u> Presence of Pro	DINGS ria tein ,	ratio wher	n dehydra
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant	biology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. MEGHA		
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT ID	: 1709937
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412270005
REFERRED BY	:	REGISTRATION DATE	: 27/Dec/2024 10:25 AM
BARCODE NO.	: 01523066	COLLECTION DATE	: 27/Dec/2024 10:39AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 27/Dec/2024 12:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	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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		C hopra y & Microbiology) Consultant Patholog	M	m Chopra D (Pathology) nt Pathologist	
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COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012412270005	
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BARCODE NO.	:01523066		COLLECTION DATE	: 27/Dec/2024 10:39AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:27/Dec/2024 12:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Reference	interval
		ENDO	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUN	1.23 OASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immun	8.48 OASSAY)	µgm/d	L 4.87 - 12.60	
	TING HORMONE (TSH): SE		μIU/m	L 0.35 - 5.50	
BY CMIA (CHEMILOMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :	IESCENT MICROPARTICLE IMMUN RASENSITIVE	UASSAT)			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	s. TSH stimulates the p	production and secretion of the	9 pm. The variation is of the order of 50% Henc metabolically active hormones, thyroxine (T ther underproduction (hypothyroidism) or	te time of ti 4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or I	ow 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)		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	

Increased

Normal or High Normal





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30 9001. 2000 CENT			· ·		
		Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi	st	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. MEGH	A			
AGE/ GENDER	: 30 YRS/FEM	ALE	PATI	ENT ID	: 1709937
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CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBALA CANTT	[

Test Name		Value Unit		Biological Reference in		ical Reference interva	
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	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 CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 27/Dec/2024 11:48AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
	URINE ROI	UTINE & MICROSCO		ATION
PHYSICAL EXAMI				
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY	ZTANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMI				
REACTION		ALKALINE		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		7.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	0		
NITRITE by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EX				
RED BLOOD CELLS	G (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3





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Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	CENTRIFLIGED URINARY SEDIMENT	15-20	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	5-6	/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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