



	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho	gy)	Yugam Chop MD (Patholo onsultant Patholo	egy)
NAME: Mrs. GEETAGE/ GENDER: 70 YRS/FECOLLECTED BY: SURJESHREFERRED BY:BARCODE NO.: 01522705CLIENT CODE.: KOS DIAGNCLIENT ADDRESS: 6349/1. NE	MALE	PATIENT ID REG. NO./LAB NO REGISTRATION I COLLECTION DAT REPORTING DAT	DATE : 20/1 FE : 20/1	4046 2 412200009 Dec/2024 08:48 AM Dec/2024 09:19AM Dec/2024 09:32AM
Test Name	Value		nit	Biological Reference interval
RED BLOOD CELLS (RBCS) COI	COMPLETE	WELLNESS PANI BLOOD COUNT ((
HAEMOGLOBIN (HB)	13.6	g	m/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT		M	fillions/cmm	3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELEC PACKED CELL VOLUME (PCV)	42.9	%	6	37.0 - 50.0
by CALCULATED BY AUTOMATED HE MEAN CORPUSCULAR VOLUME	(MCV) 85.8	fI		80.0 - 100.0
by CALCULATED BY AUTOMATED HE MEAN CORPUSCULAR HAEMOG		p	g	27.0 - 34.0
by CALCULATED BY AUTOMATED HE MEAN CORPUSCULAR HEMOGL by CALCULATED BY AUTOMATED HE	OBIN CONC. (MCHC) 31.6		/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDT	'H (RDW-CV) 15.2	%	, 0	11.00 - 16.00
by CALCULATED BY AUTOMATED HE RED CELL DISTRIBUTION WIDT by CALCULATED BY AUTOMATED HE	'H (RDW-SD) 48.8	fI		35.0 - 56.0
MENTZERS INDEX by CALCULATED	17.1	6 R	ATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	25.9	9 R	ATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)				
TOTAL LEUCOCYTE COUNT (TL by flow cytometry by sf cube &	MICROSCOPY S (nRBCS) NIL		cmm	4000 - 11000 0.00 - 20.00
NUCLEATED RED BLOOD CELLS by Automated 6 Part Hematolog	V ANALYZER			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Dr. Yugam Chopra

	Dr. Vinay Chopra MD (Pathology & Microbi		robiology) MD (Pathology)		
	Chairman & Consul		CEO & Consultant		
NAME	: Mrs. GEETA SHARMA				
AGE/ GENDER	: 70 YRS/FEMALE	PAT	FIENT ID	: 1704046	
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012412200009	
REFERRED BY			GISTRATION DATE	: 20/Dec/2024 08:48 AM	
BARCODE NO.	: 01522705		LLECTION DATE	: 20/Dec/2024 09:19AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 20/Dec/2024 09:32AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM		OKIINU DAIL	. 20/ Dec/ 2024 03.52Alvi	
	. 0040/ 1, MonoLSon Rond, Alv				
Test Name		Value	Unit	Biological Reference interval	
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)				
NEUTROPHILS		58	%	50 - 70	
-	Y BY SF CUBE & MICROSCOPY	07	04	00.10	
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	27	%	20 - 40	
EOSINOPHILS		5	%	1 - 6	
	Y BY SF CUBE & MICROSCOPY	10	0/	0.10	
MONOCYTES	Y BY SF CUBE & MICROSCOPY	10	%	2 - 12	
BASOPHILS		0	%	0 - 1	
	Y BY SF CUBE & MICROSCOPY				
	CYTES (WBC) COUNT				
ABSOLUTE NEUTR	OPHIL COUNT Y BY SF CUBE & MICROSCOPY	4762	/cmm	2000 - 7500	
ABSOLUTE LYMPH		2217	/cmm	800 - 4900	
-	Y BY SF CUBE & MICROSCOPY	110	,		
ABSOLUTE EOSINO)PHIL COUNT Y BY SF CUBE & MICROSCOPY	410	/cmm	40 - 440	
ABSOLUTE MONOC	CYTE COUNT	821	/cmm	80 - 880	
	Y BY SF CUBE & MICROSCOPY		,	0 110	
ABSOLUTE BASOP	HIL COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110	
-	OTHER PLATELET PREDICTIVE	<u>MARKERS.</u>			
PLATELET COUNT	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	369000	/cmm	150000 - 450000	
PLATELETCRIT (PC	CT)	0.41 ^H	%	0.10 - 0.36	
MEAN PLATELET V	FOCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0	
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			0.00 12.0	
	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	123000 ^H	/cmm	30000 - 90000	
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	33.4	%	11.0 - 45.0	
	BUTION WIDTH (PDW)	16.3	%	15.0 - 17.0	
	ICTED ON EDTA WHOLE BLOOD				

Dr. Vinay Chopra





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Test Name	Value	Unit	Biological Reference interval





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar		icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. GEETA SHARMA			
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BARCODE NO.	: 01522705	CO	LLECTION DATE	: 20/Dec/2024 09:19AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 20/Dec/2024 09:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIME	NTATION RATE (ESR)
by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythy CONDITION WITH LOV A low ESR can be see (polycythaemia), sigras sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	does not tell the health practitioner cted by other conditions besides inf be used to monitor disease activity ematosus W ESR n with conditions that inhibit the non ificantly high white blood cell coun e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of es not change as rapidly as does CRP by as many other factors as is ESR, i ed, it is typically a result of two type ye a biober ESR. and menstruation a	r exactly where th flammation. For th and response to t prmal sedimentati (leucocytosis), a f inflammation. P, either at the star making it a better es of proteins, glol and pregnancy can	e inflammation is in the is reason, the ESR is ty herapy in both of the a on of red blood cells, s and some protein abno rt of inflammation or a: marker of inflammatior poulins or fibrinogen. cause temporary eleva	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as uch as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n .





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BARCODE NO.	: 01522705	(COLLECTION DATE	: 20/Dec/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 20/Dec/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI		'RY/BIOCHEMIST FASTING (F)	'nY
GLUCOSE FASTING	G (F): PLASMA e - peroxidase (god-pod)	97.43	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	187.23	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		101100	ing, uz	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: S		136.85	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
		40.50	. / 11	VERY HIGH: $> OR = 500.0$
by SELECTIVE INHIBIT	L (DIRECT): SERUM	42.58	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
LDL CHOLESTEROI	CEDIM	117.28	ma/dI	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
by CALCULATED, SPE		117.20	mg/dL	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: $> OR = 190.0$
NON HDL CHOLEST by CALCULATED, SPE		144.65 ^H	mg/dL	OPTIMAL: < 130.0
by OALOOLATED, OF L				ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTERC		27.37	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SER		511.31	mg/dL	350.00 - 700.00
by CALCULATED, SPE	CTROPHOTOMETRY	511.51		
CHOLESTEROL/HD by CALCULATED, SPE		4.4	RATIO	LOW RISK: 3.30 - 4.40
by UALOULATLD, SPE				AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	ÍBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.75	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	3.21	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
			TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, S	: SERUM pectrophotometry	0.85	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.2	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CCT (UNCONJUGATED): SERUM	0.65	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		23.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM		17.9	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.3	RATIO	0.00 - 46.00
ALKALINE PHOSP		76.48	U/L	40.0 - 130.0
GAMMA GLUTAMY by szasz, spectro	L TRANSFERASE (GGT): SERUM	17.14	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.04	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.94	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.1	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.27	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

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





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DECREASED:

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

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

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



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Test Name		Value	Unit	Biological Reference interval	
	KIDNI	EY FUNCTION	TEST (COMPLETE)		
UREA: SERUM		29.24	mg/dL	10.00 - 50.00	
	MATE DEHYDROGENASE (GLDH)	1.02	m a / JI	0.40 1.20	
CREATININE: SERU by ENZYMATIC, SPEC		1.03	mg/dL	0.40 - 1.20	
	ROGEN (BUN): SERUM	13.66	mg/dL	7.0 - 25.0	
by CALCULATED, SPE BLOOD UREA NITE	ROGEN (BUN)/CREATININE	13.26	RATIO	10.0 - 20.0	
RATIO: SERUM		10.20	in the second se	10.0 20.0	
by CALCULATED, SPE UREA/CREATININ		28.39	RATIO		
by CALCULATED, SPE		28.39	KATIO		
URIC ACID: SERUM		5.64	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS CALCIUM: SERUM	E PEROXIDASE	8.72	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE					
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	3.85	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM	(E ELECTRODE)	140.2	mmol/L	135.0 - 150.0	
POTASSIUM: SERU	M	4.36	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV CHLORIDE: SERUM		105.15	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV	(E ELECTRODE)				
	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	58.5			
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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COLLECTED BY	: SURJESH		REG. NO)./LAB NO.	:012412200009	
REFERRED BY				RATION DATE	: 20/Dec/2024 08:4	19 AM
	: 01522705					
BARCODE NO.		I A D		TION DATE	: 20/Dec/2024 09:1	
CLIENT CODE.	: KOS DIAGNOSTIC			FING DATE	: 20/Dec/2024 10:5	o4AM
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBAL	A CANTT			
Fest Name		V	alue	Unit	Biologica	al Reference interval
1. Acute tubular necro		al disease.) BUN :			oathy).	
Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (i Inherited hyperamin SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide therapy Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos should produce an inc Cephalosporin therapy CEN STAGE G1	osis. Id starvation. creased urea synthes urea rather than creat monemias (urea is vin f inappropiate antidit 0:1) WITH INCREASED oy (accelerates convection eleases muscle creation who develop renal fat is (acetoacetate cau creased BUN/creatini apy (interferes with convection LAR FILTERATION RAT <u>LAR FILTERATION RAT</u> <u>DES</u>	DBUN : is. itinine diffuses out tually absent in blo uretic harmone) du DCREATININE: isson of creatine to nine). ilure. ses false increase in ne ratio). reatinine measurer E: CRIPTION idney function	bod). e to tubular secre o creatinine). n creatinine with o	uid). tion of urea. certain methodo	logies,resulting in norm SSOCIATED FINDINGS No proteinuria	al ratio when dehydrat
Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (i Inherited hyperam SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide therap Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos hould produce an inc CEphalosporin therap CKD STAGE	osis. Id starvation. creased urea synthes urea rather than creat monemias (urea is vin f inappropiate antidit 0:1) WITH INCREASED oy (accelerates convection eleases muscle creation who develop renal fat is (acetoacetate cau creased BUN/creatini apy (interferes with convection LAR FILTERATION RAT <u>LAR FILTERATION RAT</u> <u>DES</u> Normal k	D BUN : is. itinine diffuses out tually absent in blo uretic harmone) du D CREATININE: ission of creatine to nine). ilure. ses false increase in ne ratio). reatinine measurer E: CRIPTION	bod). e to tubular secre o creatinine). n creatinine with o ment). GFR (mL/min/1 >90	uid). tion of urea. certain methodo	logies,resulting in norm	al ratio when dehydrat
Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (i Inherited hyperam SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide therag Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO CEphalosporin thera STIMATED GLOMERU CKD STAGE G1 G2 G3a	osis. Id starvation. creased urea synthes urea rather than creat monemias (urea is vir f inappropiate antidut 0:1) WITH INCREASED oy (accelerates convection who develop renal fat is (acetoacetate cau creased BUN/creatinit apy (interferes with convection LAR FILTERATION RAT DES Normal k Kidney normal Mild devection	DBUN : is. itinine diffuses out tually absent in blo uretic harmone) du CREATININE: irsion of creatine to nine). ilure. ses false increase in ne ratio). reatinine measurer E: CRIPTION idney function damage with or high GFR crease in GFR	bod). e to tubular secre o creatinine). n creatinine with o ment). GFR (mL/min/1 >90 >90 60 -89	uid). tion of urea. certain methodo	logies,resulting in norm SSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydrat
Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (i Inherited hyperam SIADH (syndrome o Pregnancy. DECREASED RATIO (<1 Phenacimide therag Rhabdomyolysis (re Muscular patients v NAPPROPIATE RATIO: Diabetic ketoacidos should produce an inc CEphalosporin thera ESTIMATED GLOMERU G1 G2	osis. Id starvation. creased urea synthes urea rather than creat monemias (urea is vir f inappropiate antidut 0:1) WITH INCREASED oy (accelerates convection ov (accelerates convection who develop renal fat is (acetoacetate cau creased BUN/creatinit apy (interferes with convection LAR FILTERATION RAT DES Normal k Kidney normal Mild der Moderate	DBUN : is. itinine diffuses out tually absent in blo uretic harmone) du DCREATININE: ison of creatine to nine). ilure. ses false increase in ne ratio). reatinine measurer E: CRIPTION idney function damage with or high GFR	bod). e to tubular secre o creatinine). n creatinine with o ment). GFR (mL/min/1 >90 >90	uid). tion of urea. certain methodo	logies,resulting in norm SSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydrat





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









	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. GEETA SHARMA		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1704046
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412200009
REFERRED BY	:	REGISTRATION DATE	: 20/Dec/2024 08:48 AM
BARCODE NO.	: 01522705	COLLECTION DATE	: 20/Dec/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Dec/2024 10:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
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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MBBS, MD (PATHOLOGY)







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NAME	: Mrs. GEETA SHARMA			
AGE/ GENDER	: 70 YRS/FEMALE	PATIE	INT ID :	1704046
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REFERRED BY	:	REGIS	TRATION DATE :	20/Dec/2024 08:48 AM
BARCODE NO.	: 01522705	COLLI	CTION DATE :	20/Dec/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE :	20/Dec/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interva
		ENDOCRINO	LOGY	
	THYR	DID FUNCTION	TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoassay;	0.816	ng/mL	0.35 - 1.93
	SERUM iescent microparticle immunoassay)	8.5	µgm/dL	4.87 - 12.60
	ECCENT MICKOT ARTICLE MIMONOACOAT,			
THYROID STIMULA	ATING HORMONE (TSH): SERUM	0.718	µIU/mL	0.35 - 5.50
by CMIA (CHEMILUMIN THYROID STIMULA	ATING HORMONE (TSH): SERUM		µIU/mL	0.35 - 5.50
by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	ATING HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNOASSAY) RASENSITIVE) reen 2-4 a.m and at a mi nulates the production	nimum between 6-10 pm. Th and secretion of the metab	ne variation is of the order of 50%.Hence time of olically active hormones, thyroxine (T4)and

CLINICAL CONDITION	Т3	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 (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.

TRIIODOTH	YRONINE (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	





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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		Pathology)
NAME	: Mrs. GEETA SHARMA		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1704046
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412200009
REFERRED BY	:	REGISTRATION DATE	: 20/Dec/2024 08:48 AM
BARCODE NO.	: 01522705	COLLECTION DATE	: 20/Dec/2024 09:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 20/Dec/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

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 L	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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	: 01522705	COLLECTIO		: 20/Dec/2024 09:19AM
	: KOS DIAGNOSTIC LAB	REPORTIN	IG DATE	: 20/Dec/2024 10:07AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
	URINE ROU	JTINE & MICROSCOP	IC EXAMINA	ATION
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
CHEMICAL EXAMINA	NCE SPECTROPHOTOMETRY ATION			
REACTION		ACIDIC		
by DIP STICK/REFLECTA PROTEIN	NCE SPECTROPHOTOMETRY	Nogotivo		NECATIVE (
	NCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	NCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	NOE OF EURINOI HOTOMETRY	<=5.0		5.0 - 7.5
by DIP STICK/REFLECTA BILIRUBIN	NCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY			
NITRITE by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	NCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	NCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTA ASCORBIC ACID	NCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY			
MICROSCOPIC EXAM			////	
RED BLOOD CELLS (H	RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		1-3	/HPF	0 - 5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-5		0-5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-4	/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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