



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		Pathology)
NAME	: Mrs. UMA AGGARWAL			
AGE/ GENDER	: 61 YRS/FEMALE		PATIENT ID	: 1687886
COLLECTED BY	:		REG. NO./LAB NO.	: 012412020007
REFERRED BY	:		REGISTRATION DATE	: 02/Dec/2024 08:38 AM
BARCODE NO.	: 01521824		COLLECTION DATE	: 02/Dec/2024 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Dec/2024 09:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	THYA WE	LLNESS PANEL: D	
	COMP	PLETE BLO	OOD COUNT (CBC)	
ED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
IAEMOGLOBIN (H	B)	13.3	gm/dL	12.0 - 16.0
by CALORIMETRIC CED BLOOD CELL (RBC) COUNT	4.81	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
ACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	42.3	%	37.0 - 50.0
	AR VOLUME (MCV)	87.9	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	27.6	pg	27.0 - 34.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.4 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV)	14.6	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	47.9	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX		18.27	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
DEEN & KINC INF	NEW .	00.00	DATIO	>13.0
REEN & KING IND	JEX	26.63	RATIO	BETA THALASSEMIA TRAIT:< 65.0
				IRON DEFICIENCY ANEMIA: >
VHITE BLOOD CE	LIS (WRCS)			65.0
OTAL LEUCOCYTE		7460	/cmm	4000 - 11000
	BY SF CUBE & MICROSCOPY	1100	/ Сппп	-11000
	SLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	RT HEMATOLOGY ANALYZER			





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

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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by sf cube & microscopy	56	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	31	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	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	4178	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2313	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	597 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	373	/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	373000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.35	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	9	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	83000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	22.3	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16	%	15.0 - 17.0



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Test Name	Value	Unit	Biological Reference interval





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LIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO . low ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactiv . Generally, ESR doe	be used to monitor disease ac ematosus W ESR en with conditions that inhibit	tivity and response to th the normal sedimentatic I count (leucocytosis) , al e ESR. kers of inflammation. 25 CRP, either at the start	erapy in both of the a n of red blood cells, s nd some protein abno	ypicallý used in conjunctión with other test such above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such as it resolves. n .
. Women tend to ha . Drugs such as dext	ed, it is typically a result of tw we a higher ESR, and menstrua tran, methyldopa, oral contrac nd quinine may decrease it	ation and pregnancy can o	cause temporary eleva	ations. /Iline, and vitamin A can increase ESR, while





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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMIST	RY/BIOCHEMIST	'RY
		GLUCOSE F	FASTING (F)	
	G (F): PLASMA	93.8	mg/dL	NORMAL: < 100.0

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 ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO	TAL · SERUM	133.32	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		133.32	ing/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	ERUM PHATE OXIDASE (ENZYMATIC)	107.64	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	49.32	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		80.47	mg/dL	OPTIMAL: < 100.0 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		84	mg/dL	VERT HIGH: > 0R = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > 0R = 220.0
VLDL CHOLESTERC		21.53	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	392.28	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	DL RATIO: SERUM	2.7	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANT	г	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.63	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	2.18 ^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, SH	: SERUM PECTROPHOTOMETRY	0.43	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 by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.29	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	24.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	31.8	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	0.76	RATIO	0.00 - 46.00
ALKALINE PHOSPH		129.19	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	26.41	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.58	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.49	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.09 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	M	2.15 ^H	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:

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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	Dr. Vinay Chopra		n Chopra

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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NAME : N	Mrs. UMA AGGARWAL			
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Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTION T	EST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE	DEHYDROGENASE (GLDH)	23.3	mg/dL	10.00 - 50.00
CREATININE: SERUM	PHOTOMETERY	0.95	mg/dL	0.40 - 1.20
BLOOD UREA NITROG	EN (BUN): SERUM	10.89	mg/dL	7.0 - 25.0
BLOOD UREA NITROG RATIO: SERUM	EN (BUN)/CREATININE	11.46	RATIO	10.0 - 20.0
by CALCULATED, SPECTR UREA/CREATININE RA by CALCULATED, SPECTR	ATIO: SERUM	24.53	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PE		5.48	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPECTR		9.68	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUI	M	3.31	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE EL	ECTRODE)	139.7	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE EL		4.12	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE EL	ECTRODE)	104.78	mmol/L	90.0 - 110.0
ESTIMATED GLOMER	ULAR FILTERATION RATE			
ESTIMATED GLOMERU (eGFR): SERUM by calculated INTERPRETATION:	JLAR FILTERATION RATE	68.2		

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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CLIENT ADDRESS	. 0545/1, MCHOLSON ROAD, AM	DALA CANT I	
Test Name		Value Unit	t Biological Reference interval
2. Prerenal azotemia	nd starvation.	e than creatinine) (e.g. obstructive	uropathy).





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REFERRED BY	:	REGISTRATION DATE	: 02/Dec/2024 08:38 AM
BARCODE NO.	:01521824	COLLECTION DATE	: 02/Dec/2024 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Dec/2024 09:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		y & Microbiology) Consultant Pathologis		(Pathology) Pathologist	
NAME : N	Irs. UMA AGGARWAL				
AGE/ GENDER : 6	1 YRS/FEMALE		PATIENT ID	: 1687886	
OLLECTED BY :			REG. NO./LAB NO.	: 01241202000	7
EFERRED BY :			REGISTRATION DATE	:02/Dec/202408	:38 AM
ARCODE NO. : 0	1521824		COLLECTION DATE	:02/Dec/202408	:50AM
LIENT CODE. : K	OS DIAGNOSTIC LAB		REPORTING DATE	:02/Dec/2024 09	:57AM
LIENT ADDRESS : 6	349/1, NICHOLSON ROA	D, AMBALA CANTT			
Fest Name		Value	Unit	Biologi	cal Reference interval
	Vľ		AMINS YDROXY VITAMIN D	3	
ITAMIN D (25-HYDRO by CLIA (CHEMILUMINESCE	XY VITAMIN D3): SERU NCE IMMUNOASSAY)	JM 34.978	ng/mL	INSUFF SUFFIC	ENCY: < 20.0 ICIENCY: 20.0 - 30.0 IENCY: 30.0 - 100.0 IY: > 100.0
ITERPRETATION:	-				
DEFICIEN INSUFFICIE		< 20 21 - 29		g/mL g/mL	
PREFFERED RA		30 - 100		g/mL	
onversion of 7- dihvdroc 25-OHVitamin D repre ssue and tightly bound b Vitamin D plays a prima hosphate reabsorption, Severe deficiency may b ECREASED: Lack of sunshine exposu Inadequate intake, mala Depressed Hepatic Vital Secondary to advanced Osteoporosis and Secor Enzyme Inducing drugs: ICREASED: Hypervitaminosis D is R evere hypercalcemia and AUTION: Replacement thypervitaminosis D	holecalciferol to Vitamin sents the main body rese by a transport protein wh iry role in the maintenan skeletal calcium depositi ead to failure to minerali assorption (celiac diseas min D 25- hvdroxylase ac Liver disease idary Hyperparathroidism anti-epileptic drugs like tare, and is seen only afte hyperphophatemia. herapy in deficient indivic iduals as compare to whit	D3 in the skin upon voir and transport fo ille in circulation. ce of calcium homer on, calcium mobiliza ze newly formed ost e) tivity n (Mild to Moderate phenytoin, phenoba er prolonged exposu luals must be monito	orm of Vitamin D and trans ostatis. It promotes calciun tion, mainly regulated by p reoid in bone, resulting in r	port form of Vitamin n absorption, renal c parathyroid harmone ickets in children and that increases Vitam of Vitamin D. When it of Vitamin D levels	D, being stored in adipose alcium absorption and (PTH). d osteomalacia in adults. in D metabolism. it occurs, it can result in in order to prevent





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yhoira

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