



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		(Pathology)
AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	Mrs. NEELAM AHUJA 69 YRS/FEMALE 01522954 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AMB/		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1708185 : 012412250005 : 25/Dec/2024 08:13 AM : 25/Dec/2024 08:25AM : 25/Dec/2024 08:58AM
Test Name		Value	Unit	Biological Reference interval
		LETE BLO	LLNESS PANEL: 1.5 DOD COUNT (CBC)	
HAEMOGLOBIN (HB) by CALORIMETRIC		14.3	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB	C) COUNT USING, ELECTRICAL IMPEDENCE	5.38 ^H	Millions/	² cmm 3.50 - 5.00
PACKED CELL VOLUM	E (PCV)	45	%	37.0 - 50.0
MEAN CORPUSCULAR		83.6	fL	80.0 - 100.0
MEAN CORPUSCULAR	OMATED HEMATOLOGY ANALYZER HAEMOGLOBIN (MCH) OMATED HEMATOLOGY ANALYZER	26.6 ^L	pg	27.0 - 34.0
	HEMOGLOBIN CONC. (MCHC)	31.8 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) OMATED HEMATOLOGY ANALYZER	14.4	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD)	45.4	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.54	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		22.39	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS TOTAL LEUCOCYTE CO		5680	/cmm	4000 - 11000
by FLOW CYTOMETRY BY NUCLEATED RED BLC	OD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PART F	HEMATOLOGY ANALYZER OOD CELLS (NRBCS) %	NIL	%	< 10 %





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Dr. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. NEELAM AHUJA AGE/ GENDER : 69 YRS/FEMALE **PATIENT ID** :1708185 **COLLECTED BY** :012412250005 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 25/Dec/2024 08:13 AM **BARCODE NO.** :01522954 **COLLECTION DATE** : 25/Dec/2024 08:25AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 25/Dec/2024 08:58AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 65 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 23 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 6 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 6 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3692 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1306 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 341 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 341 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 233000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.28 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 98000^H 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 42 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.6% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra

MD (Pathology & Microbiology)

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	Dr. Vinay Chopra MD (Pathology & Microbiolog) Chairman & Consultant Pathol		(Pathology)
NAME	: Mrs. NEELAM AHUJA		
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Test Name	Value	Unit	Biological Reference interval



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: 01522954	COLL	ECTION DATE	: 25/Dec/2024 08:25AM
: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 25/Dec/2024 02:48PM
: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
	Value	Unit	Biological Reference interva
			x
EMOGLOBIN (HbA1c):	DSYLATED HAEMO 5.6	GLOBIN (HBA1C %) 4.0 - 6.4
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.6 114.02 DIABETES ASSOCIATION	% mg/dL (ADA):	4.0 - 6.4 60.00 - 140.00
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	5.6 114.02 DIABETES ASSOCIATION	% mg/dL (ADA): 'LATED HEMOGLOGIB (4.0 - 6.4 60.00 - 140.00
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP Ibetic Adults >= 18 years	5.6 114.02 DIABETES ASSOCIATION	% mg/dL (ADA): <u>'LATED HEMOGLOGIB (</u> <5.7	4.0 - 6.4 60.00 - 140.00
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP Ibetic Adults >= 18 years Risk (Prediabetes)	5.6 114.02 DIABETES ASSOCIATION	% mg/dL (ADA): <u>'LATED HEMOGLOGIB (</u> <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP Ibetic Adults >= 18 years	5.6 114.02 DIABETES ASSOCIATION	% mg/dL (ADA): <u>(ADA):</u> <u><5.7</u> <u>5.7 - 6.4</u> >= 6.5	4.0 - 6.4 60.00 - 140.00
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP Ibetic Adults >= 18 years Risk (Prediabetes) agnosing Diabetes	5.6 114.02 DIABETES ASSOCIATION GLYCOSY Goals of The	% mg/dL (ADA): <u>(ADA):</u> <u>(ATED HEMOGLOGIB (</u> <5.7 <u>5.7 - 6.4</u> >= 6.5 <u>Age > 19 Years</u> erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP Ibetic Adults >= 18 years Risk (Prediabetes)	5.6 114.02 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): <u>(ADA):</u> <u>(ATED HEMOGLOGIB (</u> <5.7 <u>5.7 - 6.4</u> >= 6.5 <u>Age > 19 Years</u> erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
-	MD (Pathology & Chairman & Cons : Mrs. NEELAM AHUJA : 69 YRS/FEMALE : : : : 01522954 : KOS DIAGNOSTIC LAB	: 69 YRS/FEMALE PATE : REG. : REG. : 01522954 COLL : KOS DIAGNOSTIC LAB REPO : 6349/1, NICHOLSON ROAD, AMBALA CANTT	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mrs. NEELAM AHUJA : 69 YRS/FEMALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 01522954 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT

KOS Diagnostic Lab (A Unit of KOS Healthcare)

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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	: 69 YRS/FEMALE			
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ARCODE NO.	:01522954	COLL	ECTION DATE	: 25/Dec/2024 08:25AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 25/Dec/2024 09:21AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
'est Name		Value	Unit	Biological Reference interval
olycythaemia), signi	VESR with conditions that inhibit th ficantly high white blood cell c e cell anaemia) also lower the l	ount (leucocytosis), and	of red blood cells, su some protein abnor	ich as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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		gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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BARCODE NO.	:01522954	COI	LECTION DATE	: 25/Dec/2024 08:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 25/Dec/2024 11:02AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTRY	Y/BIOCHEMIST	RY
		GLUCOSE FAS	STING (F)	
	G (F): PLASMA	110.36 ^H	mg/dL	NORMAL: < 100.0

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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MD	Vinay Chopra (Pathology & Microbiology) irman & Consultant Pathologis		(Pathology)
NAME : Mrs. NEELAM A	HUJA		
AGE/ GENDER : 69 YRS/FEMALE		PATIENT ID	: 1708185
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BARCODE NO. : 01522954		COLLECTION DATE	: 25/Dec/2024 08:25AM
CLIENT CODE. : KOS DIAGNOSTI	C LAB	REPORTING DATE	: 25/Dec/2024 11:41AM
CLIENT ADDRESS : 6349/1, NICHOL	SON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
		OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM	212.52 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE PAP	212.52"	iiig/ uL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: SERUM	113.78	mg/dL	0PTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (ENZY		ing, uii	BORDERLINE HIGH: 150.0 -
			199.0
			HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUN	M 52.54	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION		Ű	BORDERLINE HIGH HDL: 30.0
			60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM	137.22 ^H	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMETRY	157.22		ABOVE OPTIMAL: 100.0 - 129.0
			BORDERLINE HIGH: 130.0 -
			159.0 HIGH: 160.0 - 189.0
			VERY HIGH: $> OR = 190.0$
NON HDL CHOLESTEROL: SERUM	159.98 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 -
			189.0
			HIGH: 190.0 - 219.0
	00.70	. / 17	VERY HIGH: $>$ OR = 220.0
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	22.76	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM	538.82	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL/HDL RATIO: SERUM	4.04	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPHOTOMETRY	4.04	KA110	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 by CALCULATED, SPE		2.61	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	2.17 ^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	ESERUM PECTROPHOTOMETRY	0.86	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.2	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.66	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	25.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	30.8	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.83	RATIO	0.00 - 46.00
ALKALINE PHOSPI by para nitrophen propanol	IATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	80.95	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	24.67	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.39	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.89	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	1	2.5	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.96	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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



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

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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)		Pathology)	
NAME	: Mrs. NEELAM AHUJA				
AGE/ GENDER	: 69 YRS/FEMALE]	PATIENT ID	: 1708185	
COLLECTED BY	:]	REG. NO./LAB NO.	: 012412250005	
REFERRED BY	:]	REGISTRATION DATE	: 25/Dec/2024 08:13 AM	
BARCODE NO.	: 01522954		COLLECTION DATE	: 25/Dec/2024 08:25AM	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	KIDNI	EY FUNCTION	N TEST (COMPLETE)		
UREA: SERUM		41.43	mg/dL	10.00 - 50.00	
by UREASE - GLUTAN CREATININE: SERI	IATE DEHYDROGENASE (GLDH)	1.17	mg/dL	0.40 - 1.20	
by ENZYMATIC, SPEC	TROPHOTOMETERY		ling/ uL		
BLOOD UREA NITR by CALCULATED, SPE	ROGEN (BUN): SERUM	19.36	mg/dL	7.0 - 25.0	
	ROGEN (BUN)/CREATININE	16.55	RATIO	10.0 - 20.0	
RATIO: SERUM					
by CALCULATED, SPE UREA/CREATININ		35.41	RATIO		
by CALCULATED, SPE	ECTROPHOTOMETRY			0.50 0.00	
URIC ACID: SERUM by URICASE - OXIDAS		2.57	mg/dL	2.50 - 6.80	
CALCIUM: SERUM		10.07	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE PHOSPHOROUS: SE		4.2	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBE	DATE, SPECTROPHOTOMETRY				
ELECTROLYTES					
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		142.6	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM		4.3	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV CHLORIDE: SERUM		106.95	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV	(E ELECTRODE)		IIIII01/ L	00.0 - 110.0	
ESTIMATED GLOM	IERULAR FILTERATION RATE				
	ERULAR FILTERATION RATE	50.5			
(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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo			am Chopra ID (Pathology) ant Pathologist		
NAME	: Mrs. NEELAM AHUJA					
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,					
Test Name		Value	Unit	Biolog	gical Reference inte	erval
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine produ tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately r superimposed on renal disease	E LEVELS: nore than creatinine)	(e.g. obstructive uro	pathy).		
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (>1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r- 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine produ- tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately r superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2: creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abso f inappropiate antidiuretic harn 0:1) WITH INCREASED CREATINII oy (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine r LAR FILTERATION RATE: <u>DESCRIPTION</u> <u>Normal kidney func</u> <u>Kidney damage wi normal or high Gi</u>	E LEVELS: nore than creatinine) uses out of extracellu ent in blood). none) due to tubular s VE: eatine to creatinine). crease in creatinine v neasurement). GFR (mL/r tion	lar fluid). secretion of urea. with certain method		iS	ydratio
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r- 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in- 2. Cephalosporin ther ESTIMATED GLOMERU G1 G2 G3	(e.g. ureter colostomy) ass (subnormal creatinine produ- tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately r superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2: creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abso f inappropiate antidiuretic harn 0:1) WITH INCREASED CREATINII oy (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine r LAR FILTERATION RATE: DESCRIPTION Normal kidney func Kidney damage wi normal or high Gi	E LEVELS: nore than creatinine) uses out of extracellu ent in blood). none) due to tubular s dE: eatine to creatinine). crease in creatinine w neasurement). GFR (mL/r tion SR 600	lar fluid). secretion of urea. with certain method nin/1.73m2) .90 .90 .90	ologies,resulting in no ASSOCIATED FINDING No proteinuria Presence of Protein ,	iS	ydratic
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (>1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r- 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine produ- tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININ (BUN rises disproportionately r superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2: creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abso f inappropiate antidiuretic harn 0:1) WITH INCREASED CREATINII oy (accelerates conversion of cr eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine r LAR FILTERATION RATE: <u>DESCRIPTION</u> <u>Normal kidney func</u> <u>Kidney damage wi normal or high Gi</u>	E LEVELS: hore than creatinine) uses out of extracellu ent in blood). hone) due to tubular s JE: eatine to creatinine). crease in creatinine with heasurement). GFR (mL/r th R FR 60 n GFR 30	lar fluid). secretion of urea. with certain method	ologies,resulting in no ASSOCIATED FINDING No proteinuria Presence of Protein ,	iS	ydratic





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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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<u> </u>				
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY	62.3	µg/dL	37.0 - 145.0
UNSATURATED IR :SERUM by FERROZINE, SPEC	ON BINDING CA	APACITY (UIBC) 256	µg/dL	150.0 - 336.0
TOTAL IRON BIND SERUM		(TIBC) 318.3	µg/dL	230 - 430
%TRANSFERRIN S	ATURATION: S		%	15.0 - 50.0
TRANSFERRIN: SE by SPECTROPHOTON	RUM	225.99	mg/dL	200.0 - 350.0
INTERPRETATION:-				
VARIAE		ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	
CEDI IM I	DUNI	Normal to Poducod	Poducod	Normal

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased Increased		Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON			

IRON:

1. Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia. i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC): It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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NAME	: Mrs. NEELAM AHUJA			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	г	
Test Name		Value	Unit	Biological Reference interval
		ENDO	RINOLOGY	
	THY	ROID FUN	CTION TEST: TOTAL	L
TRIIODOTHYRONII	NE (T3): SERUM	0.842 SAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	ERUM	10.12 SAY)	µgm/d	L 4.87 - 12.60
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT. INTERPRETATION:		,		
day has influence on the i triiodothyronine (T3).Fai	measured serum TSH concentrations. TSH	l stimulates the p	roduction and secretion of the	<i>Dpm. The variation is of the order of 50%.Hence time of th</i> metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Low N	Iormal	Normal or Low Normal	High

 Subclinical Hyperth	yroidism:
LIMITATIONS:-	

Primary 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.

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

Increased

Normal or High Normal





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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	MMENDATIONS 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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Test Name		Value I	J nit	Biological Reference interval
	IMM	UNOPATHOLOGY/SER	OLOGY	
		C-REACTIVE PROTEIN (CF	RP)	
		2.67	ng/L	0.0 - 6.0
C-REACTIVE PROT SERUM by NEPHLOMETRY INTERPRETATION:	EIN (CRP) QUANTITATIVE:	2.07		

are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:**

Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.
 Oral contraceptives may increase CRP levels.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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SU 9001 : 2008 CERT	IFIEV LAD		EXCELLENCE IN HEALTHCARE		
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Test Name		Value	Unit	Biological Reference interval	
		IMMUNOGLO	BIN IgE		
INTERPRETATION: COMMENTS:	ESCENCE IMMUNOASSAY) liate allergic diseases by sensitizin	159.19^H g mast cells and basop	IU/mL	0.00 - 100.00 amine and other inflammatory mediators on	
 8.A normal level of Ic allergens and limited intergens and limited intergens and limited 2.Parasitic Infection. 3.IgE Myeloma 4.Allergic bronchopu 5.The rare hyper IgE s 6.Immunodeficiency intergence of child 2.Evaluation of child 3.To confirm clinical disease 4.To evaluate sensiti equivocal 	end organ involvement. Allergy Ilmonary aspergillosis. Syndrome. States and Autoimmune states ren with strong family history of a ren and adults suspected of havin expression of sensitivity to foods i	allergies and early clin g allergic respiratory d n patients with Anaph ticularly as an aid in de	ical signs of disease isease to establish ylactic sensitivity or	if there is sensitivity to a limited number of the diagnosis and define the allergens with Asthma, Angioedema or Cutaneous ificity in those cases in which skin tests are	
	har-	quops			
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBI	DR.YUGAM CHO CONSULTANT F IOLOGY) MBBS , MD (PA	ATHOLOGIST		

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		C hopra & Microbiology) onsultant Pathologis		(Pathology)
AME	: Mrs. NEELAM AHUJA			
GE/ GENDER	: 69 YRS/FEMALE		PATIENT ID	: 1708185
OLLECTED BY	:		REG. NO./LAB NO.	: 012412250005
EFERRED BY	:		REGISTRATION DATE	: 25/Dec/2024 08:13 AM
ARCODE NO.	:01522954		COLLECTION DATE	: 25/Dec/2024 08:25AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 25/Dec/2024 11:41AM
IENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
TAMIN D (25-HY	VIT DROXY VITAMIN D3): SERU	AMIN D/25 HY	'AMINS YDROXY VITAMIN D ng/mL	3 DEFICIENCY: < 20.0
	ESCENCE IMMUNOASSAY)		0	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	n	g/mL
	FICIENT:	21 - 29		g/mL
	ED RANGE: CATION:	30 - 100 > 100		g/mLg/mL
25-OHVitamin D r ssue and tightly bou Vitamin D plays a p nosphate reabsorpt Severe deficiency n ECREASED: Lack of sunshine ex Inadequate intake, Depressed Hepatic Secondary to advar Osteoporosis and S Enzyme Inducing di ICREASED: Hypervitaminosis I svere hypercalcemia	und by a transport protein whi rimary role in the maintenanc ion, skeletal calcium depositio nay lead to failure to mineraliz posure. malabsorption (celiac disease Vitamin D 25- hydroxylase acti need Liver disease econdary Hyperparathroidism rugs: anti-epileptic drugs like p D is Rare, and is seen only after a and hyperphophatemia.	oir and transport for le in circulation. e of calcium homeon, calcium mobiliza e newly formed ost) ivity (Mild to Moderate henytoin, phenoba	orm of Vitamin D and trans ostatis. It promotes calciun ition, mainly regulated by r teoid in bone, resulting in r deficiency) rbital and carbamazepine, re to extremely high doses	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and barathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in it of Vitamin D levels in order to prevent
	individuals as compare to white n D absorption.	s, is at higher risk of	f developing Vitamin D defic	iency due to excess of melanin pigment which

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		& Microbiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
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CLIENT ADDRESS	. 0549/ 1, NICHOLSON KOAI	D, AMIDALA CANTI				
Test Name		Value	Unit	Biological Reference interval		
1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	gen nin A	3.Ethanol Igest		, Colchicine		
4.Hepatocellular injury 5.Myeloproliferative disorder			4. Contraceptive Harmones 5. Haemodialysis			
6.Uremia		6. Multiple Mye				
2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, smal 5.Vitamin B12 deficie proprioception, poor the neurologic defec 6.Serum methylmalo 7.Follow-up testing f	ency may be due to lack of IF se I intestinal diseases). ency frequently causes macroc coordination, and affective be ts without macrocytic anemia. onic acid and homocysteine lev- for antibodies to intrinsic facto	ins and requires intrinsic fa nically, reabsorbing vitamir ecretion by gastric mucosa ytic anemia, glossitis, peri ehavioral changes. These n els are also elevated in vita r (IF) is recommended to id	actor (IF) for absorp n B12 from the ileun (eg, gastrectomy, g pheral neuropathy, nanifestations may o amin B12 deficiency dentify this potentia	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have		





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

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COLLECTED FYI:REG. NO./LAB NO.I: 012412250005.REFEREND BYI:S: 5/Dec/2024 08:13 AM.BARCODE NO.I: 01522954COLLECTION DATEI: 25/Dec/2024 08:25AM.CULENT CODE NO.I: 0522954S: 5/Dec/2024 08:25AM.CULENT ADDRESSI: 8349/1, NICHOLSON ROAD, AMBALA CANTTIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NAME	: Mrs. NEELAM AHUJA				
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by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION			NEGATIVE (-ve)		NEGATIVE (-ve)	
	by DIP STICK/REFLEC					
RED BLOOD CELLS (RBCs)NEGATIVE (-ve)/HPF0 - 3						
	RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3	



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NANGE



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

NEET AND ATTITA

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

Test Name		Value	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1. NICHOLSON ROAD.	ΔΜΒΔΙ Δ CΔΝΤΤ		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 25/Dec/2024 09:46AM
BARCODE NO.	: 01522954	COLL	ECTION DATE	: 25/Dec/2024 08:25AM
REFERRED BY	:	REGI	STRATION DATE	: 25/Dec/2024 08:13 AM
COLLECTED BY	:	REG.	NO./LAB NO.	: 012412250005
AGE/ GENDER	: 69 YRS/FEMALE	PATI	ENT ID	: 1708185
NAME	: Mrs. NEELAM AHUJA			

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/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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