



	Dr. Vinay Chopr MD (Pathology & Mice Chairman & Consulta	robiology)		(Pathology)
NAME	: Mrs. PREM LATA AGGARWAL			
AGE/ GENDER	: 77 YRS/FEMALE		PATIENT ID	: 1563290
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407280059
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBA	LA CANTT)	REGISTRATION DATE	: 28/Jul/2024 11:36 AM
BARCODE NO.	: 01513994		COLLECTION DATE	: 28/Jul/2024 11:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Jul/2024 12:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS'	THYA WE	LLNESS PANEL: 1.5	
			OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.4	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE		4.07	Millions/ci	mm 3.50 - 5.00
by HYDRO DYNAMIC F PACKED CELL VOLUN	OCUSING, ELECTRICAL IMPEDENCE NE (PCV)	38.5	%	37.0 - 50.0
by CALCULATED BY A MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	94.7	fL	80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	30.6		27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER	30.0	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.3	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	49.5	fL	35.0 - 56.0
MENTZERS INDEX	GI GWALED HEIWAT GEOGT AIVAETZER	23.27	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	Х	32.72	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			INON DEFICIENCE ANEIVIA. > 03.0
TOTAL LEUCOCYTE C	OUNT (TLC)	7320	/cmm	4000 - 11000
NUCLEATED RED BLC by CALCULATED BY A	/ by sf cube & microscopy DOD CELLS (nRBCS) utomated hematology analyzer &	NIL		0.00 - 20.00
	DOD CELLS (nRBCS) % <i>UTOMATED HEMATOLOGY ANALYZER</i> &	NIL	%	< 10 %

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. PREM LATA AGGARWAL **AGE/ GENDER** : 77 YRS/FEMALE **PATIENT ID** :1563290 **COLLECTED BY** : SURJESH :012407280059 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 28/Jul/2024 11:36 AM **BARCODE NO.** :01513994 **COLLECTION DATE** : 28/Jul/2024 11:40AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 28/Jul/2024 12:04PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 50 - 70 43^L % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 45^H % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % EOSINOPHILS 2 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 10 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 3148 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 3294 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 146 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 732 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 0 - 110 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 164000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.22 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 13^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 83000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 50.2^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.1 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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







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Test Name	Value	Unit	Biological Reference interval





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>8.0

<7.5

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Test Name		Value	Unit		Biological Reference interval
	GL	YCOSYLATED H	AEMOGLOBIN (HBA ⁻	1C)	
GLYCOSYLATED HAEM	OGLOBIN (HbA1c):	5.8	%		4.0 - 6.4
ESTIMATED AVERAGE		119.76	mg/c	IL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION	(ADA):		
	FERENCE GROUP	GLYCOS	YLATED HEMOGLOGIB (HI	BAIC) in %	
	etic Adults >= 18 years		<5.7		
	Risk (Prediabetes)	/	5.7 - 6.4		
Dia	gnosing Diabetes		>= 6.5		
		Goals of The	Age > 19 Years	< 7.0	
Thorapoutio	acale for algorith control		erapy.	< 1.U	_

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

Actions Suggested:

Goal of therapy

Age < 19 Years

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.





Therapeutic goals for glycemic control

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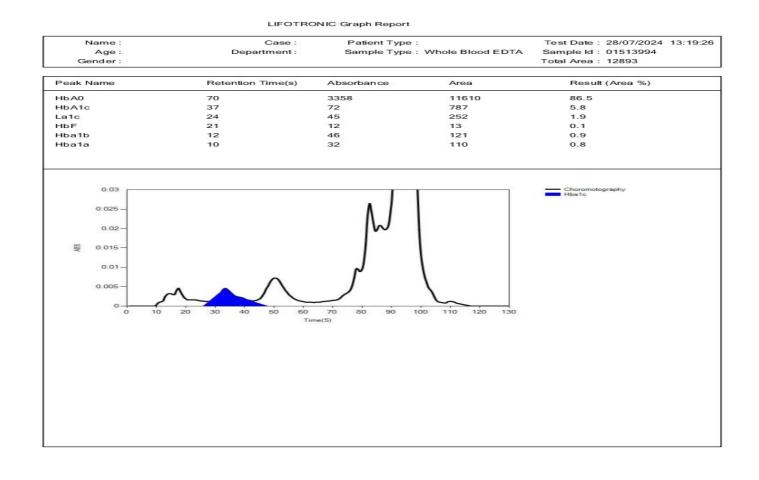


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Test Name	Value	Unit	Biological Reference interval







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Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDI	MENTATION RATE (ES	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	38 ^H	mm/1st l	hr 0 - 20
	ic test because an elevated result	ner exactly wher	e the inflammation is in the	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran methyldona oral contracentives penicillamine procainamide theophylline and vit

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIS	STRY/BIOCHEMISTR	Y
		GLUCOS	E FASTING (F)	
	(F): PLASMA se - peroxidase (god-pod)	109.83 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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.
 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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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. PREM LATA AGGARW : 77 YRS/FEMALE : SURJESH : CENTRAL PHOENIX CLUB (A : 01513994 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	PAT REG MBALA CANTT) REG COL REP	IENT ID . NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	: 1563290 : 012407280059 : 28/Jul/2024 11:36 AM : 28/Jul/2024 11:40AM : 28/Jul/2024 01:42PM
Test Name		Value	Unit	Biological Reference interval
L			- BARKA	
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O		148.72	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	73.38	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		75.9	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: : by calculated, spe		58.14	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 CHOLESTE by calculated, spe		72.82	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL by CALCULATED, SPE		14.68	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	370.82	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	1.96	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SEF by Calculated, spe		0.77	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
CT VIEW AT 27 CT		0		



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TRIGLYCERIDES/HD	0.77	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.

3. 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. 4. 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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LIVE	R FUNCTION TEST	(COMPLETE)		
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.57	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.21	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.36	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	39.04	U/L	7.00 - 45.00	
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	27.19	U/L	0.00 - 49.00	
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.44	RATIO	0.00 - 46.00	
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	184.54 ^H	U/L	40.0 - 130.0	
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	169.5 ^H	U/L	0.00 - 55.0	
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.42	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.54	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.88	gm/dL	2.30 - 3.50	
A : G RATIO: SERUM by calculated, spectrophotometry	1.58	RATIO	1.00 - 2.00	

INTERPRETATION

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

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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BARCODE NO.	: 01513994	COLLECTION DATE	: 28/Jul/2024 11:40AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 28/Jul/2024 01:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ГТ	
Test Name	Value	Unit	Biological Reference interval

DECREASED:

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

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

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

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Dr. Vinay Ch MD (Pathology & Chairman & Cor				(Pathology)
NAME	: Mrs. PREM LATA AGGARW	AL		
AGE/ GENDER	: 77 YRS/FEMALE		PATIENT ID	: 1563290
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407280059
REFERRED BY	: CENTRAL PHOENIX CLUB (A	MBALA CANTT)	REGISTRATION DATE	: 28/Jul/2024 11:36 AM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Jul/2024 03:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	кі	DNEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM	MATE DEHYDROGENASE (GLDH)	52.06 ^H	mg/dL	10.00 - 50.00
CREATININE: SERUN	N	1.32 ^H	mg/dL	0.40 - 1.20
	CTROPHOTOMETERY DGEN (BUN): SERUM	24.33	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	24.55	Thy/dL	7.0-23.0
	GEN (BUN)/CREATININE	18.43	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE F		39.44	RATIO	
-	ECTROPHOTOMETRY	4.50	/ II	0.50 (00
URIC ACID: SERUM by URICASE - OXIDAS	SE PEROXIDASE	4.58	mg/dL	2.50 - 6.80
CALCIUM: SERUM		9.55	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		1.04		2.20 4.70
PHOSPHOROUS: SEF by PHOSPHOMOLYBE	CUIVI DATE, SPECTROPHOTOMETRY	4.04	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		140.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		474		
POTASSIUM: SERUM by ISE (ION SELECTIV		4.76	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		105.45	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
	RULAR FILTERATION RATE			
ESTIMATED GLOME (eGFR): SERUM	RULAR FILTERATION RATE	41.6		
by CALCULATED				
INTERPRETATION:				

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.



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	MD (Vinay Chopra Pathology & Microbiology) man & Consultant Pathologi		gam Chopra MD (Pathology) Itant Pathologist	
NAME	: Mrs. PREM LATA	AGGARWAL			
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				. 28/ Jul/ 2024 03.52	r IVI
CLIENT ADDRESS	: 6349/1, NICHOLS	SON ROAD, AMBALA CANT			
Test Name		Value	Unit	Biological	Reference interval
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	superimposed on rer	inine production) rticoids) CREATININE LEVELS: rtionately more than creatir nal disease.	nine) (e.g. obstructive ur	ropathy).	
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin the 	ass (subnormal creat tetracycline, glucoco 20:1) WITH ELEVATED a (BUN rises dispropol superimposed on rer 10:1) WITH DECREASE rosis. and starvation. e. creased urea synthes (urea rather than creat monemias (urea is vi of inappropiate antidi 10:1) WITH INCREASEE upy (accelerates conve eleases muscle creat who develop renal fa c: usis (acetoacetate cau creased BUN/creatin rapy (interferes with c	inine production) rticoids) CREATININE LEVELS: rtionately more than creatin hal disease. D BUN : is. atinine diffuses out of extra rtually absent in blood). uretic harmone) due to tubu D CREATININE: ersion of creatine to creatin inine). ilure. ses false increase in creatin ine ratio). creatinine measurement).	cellular fluid). ular secretion of urea. ine).	ropathy). dologies,resulting in norma	al ratio when dehydratio
 Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin the 	hass (subnormal creat tetracycline, glucoco 20:1) WITH ELEVATED a (BUN rises dispropol superimposed on rer 10:1) WITH DECREASE rosis. and starvation. e. creased urea synthes (urea rather than creat monemias (urea is vi of inappropiate antidi 10:1) WITH INCREASEE upy (accelerates conve eleases muscle creat who develop renal fa c: usis (acetoacetate cau creased BUN/creatin rapy (interferes with o JLAR FILTERATION RA	inine production) rticoids) CREATININE LEVELS: rtionately more than creatin hal disease. D BUN : is. atinine diffuses out of extra rtually absent in blood). uretic harmone) due to tubu D CREATININE: ersion of creatine to creatin inine). ilure. ses false increase in creatin ine ratio). creatinine measurement).	cellular fluid). ular secretion of urea. ine).		al ratio when dehydratio
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an ir 2. Cephalosporin the ESTIMATED GLOMERI CKD STAGE	ass (subnormal creat tetracycline, glucoco 20:1) WITH ELEVATED a (BUN rises dispropol superimposed on rer 10:1) WITH DECREASE rosis. and starvation. e. creased urea synthes (urea rather than creat monemias (urea is vi of inappropiate antidi 10:1) WITH INCREASEE upy (accelerates conve releases muscle creat who develop renal fa bis (acetoacetate cau creased BUN/creatin rapy (interferes with o <u>JLAR FILTERATION RAT Normal Kattana substana subs</u>	inine production) rticoids) CREATININE LEVELS: rtionately more than creatin hal disease. D BUN : is. atinine diffuses out of extra rtually absent in blood). uretic harmone) due to tubu D CREATININE: ersion of creatine to creatin inine). illure. ses false increase in creatin ine ratio). creatinine measurement). <u>FE:</u> CCRIPTION GFR (kidney function	cellular fluid). ular secretion of urea. ine).	dologies,resulting in norma	al ratio when dehydratio
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the ESTIMATED GLOMERI OKD STAGE	ass (subnormal creat tetracycline, glucoco 20:1) WITH ELEVATED a (BUN rises dispropol superimposed on rer 10:1) WITH DECREASE rosis. and starvation. e. creased urea synthes (urea rather than creat monemias (urea is vi pof inappropiate antidi 10:1) WITH INCREASEE upy (accelerates conver- releases muscle creat who develop renal fa bis (acetoacetate cau creased BUN/creatin rapy (interferes with co JLAR FILTERATION RAT Normal k Normal k	inine production) rticoids) CREATININE LEVELS: rtionately more than creatin hal disease. D BUN : is. atinine diffuses out of extra rtually absent in blood). uretic harmone) due to tubu D CREATININE: ersion of creatine to creatin inine). illure. ses false increase in creatir ine ratio). creatinine measurement). <u>FE:</u> CCRIPTION GFR (cellular fluid). ular secretion of urea. ine). ine with certain method mL/min/1.73m2) >90 >90	dologies,resulting in norma ASSOCIATED FINDINGS	al ratio when dehydratio

Moderate decrease in GFR	
Severe decrease in GFR	
Kidney failure	



G3a

G3b

G4

G5

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Mild decrease in GFR

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

60 - 89

30-59

15-29

<15









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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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Dr. Yugam Chopr

Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant P				(Pathology)
NAME :	Mrs. PREM LATA AGGARW	AL		
AGE/ GENDER :	77 YRS/FEMALE		PATIENT ID	: 1563290
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CLIENT ADDRESS :	6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON	PROFILE	
IRON: SERUM by ferrozine, spectro	PHOTOMETRY	67.5	μg/dL	50.0 - 170.0
UNSATURATED IRON BI SERUM by FERROZINE, SPECTRO	NDING CAPACITY (UIBC)	258.3	µg/dL	150.0 - 336.0
TOTAL IRON BINDING C SERUM	APACITY (TIBC)	325.8	μg/dL	230 - 430
%TRANSFERRIN SATUR		20.72	%	15.0 - 50.0
TRANSFERRIN: SERUM		231.32	mg/dL	200.0 - 350.0
INTERPRETATION:- VARIABLES		HRONIC DISEASE	IRON DEFICIENCY ANEMI	A THALASSEMIA α/β TRAIT

Dr Vinay Chopra

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
DON.			

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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Test Name	Valu	Je Unit	Biological Reference interval
	EN	IDOCRINOLOGY	
	THYROID	FUNCTION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM 0.88 IESCENT MICROPARTICLE IMMUNOASSAY)	35 ng/mL	0.35 - 1.93
THYROXINE (T4): SEI	RUM 9.14	4 μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM 1.22 IESCENT MICROPARTICLE IMMUNOASSAY)	22 μIU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE		
day has influence on the	circadian variation, reaching peak levels between 2 measured serum TSH concentrations.TSH stimulates lure at any level of regulation of the hypothalamic-	the production and secretion of the	

overproduction(hyperthyroidism) of T4 and/or T3.

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 (eg: phenytoin , salicylates).

3. Serum T4 levies 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMU	ATING 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





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NAME

AGE/ GENDER

COLLECTED BY

REFERRED BY

BARCODE NO.

CLIENT CODE.



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: Mrs. PREM	I LATA AGGARWAL		
: 77 YRS/FE	MALE	PATIENT ID	: 1563290
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CENTRAL I	DITOENIN CLUD (AMDALA CANTT)	DECISTRATION DATE	. 20 /[] /2024 11.2

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9 : 28/Jul/2024 11:36 AM : 28/Jul/2024 11:40AM

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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

: KOS DIAGNOSTIC LAB

:01513994

Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	
	RECOM	MENDATIONS OF TSH LI	VELS DURING PREG	NANCY (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, idonie 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 goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic 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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		hopra & Microbiology) nsultant Pathologis		(Pathology)
IAME	: Mrs. PREM LATA AGGARV	/AL		
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est Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
	V		YDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM	40.8	ng/mL	DEFICIENCY: < 20.0
,	ESCENCE IMMUNOASSAY)	40.0	IIg/IIIL	INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0
				TOXICITY: > 100.0
VTERPRETATION:				
DEFICIENT: INSUFFICIENT:		< 20 21 - 29		g/mL g/mL
	D RANGE:	30 - 100		g/mL
	CATION:	> 100		g/mL
onversion of 7- dihy	drocholecalciferol to Vitamin E epresents the main body resev ind by a transport protein whil	oir and transport f	n Ultraviolet exposure. Form of Vitamin D and trans	port form of Vitamin D, being stored in adipo

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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COLLECTED BY	: SURJESH	REG. NO./LAB NO.	:012407280059		
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CAN				
BARCODE NO.	: 01513994	COLLECTION DATE	: 28/Jul/2024 11:40AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 28/Jul/2024 01:53PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	NTT			
Test Name	Value	Unit	Biological Refe	rence interval	
INTERPRETATION: -	ESCENT MICROPARTICLE IMMUNOASSAY)	pg/m			
1.Ingestion of Vitam	ED VITAMIN B12	DECREASED VITAMIN B12 1.Pregnancy			
2.Ingestion of Estrog		2.DRUGS:Aspirin, Anti-convulsants, Colchicine			
3.Ingestion of Vitam		3.Ethanol Igestion			
4.Hepatocellular in		4. Contraceptive Harmones			
5.Myeloproliferativ		5.Haemodialysis			
6.Uremia	6. N amin) is necessary for hematopoiesis and noi	6. Multiple Myeloma			
3.The body uses its vi excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor the neurologic defect 6.Serum methylmalor 7.Follow-up testing for NOTE: A normal serun deficiency at the cellu	ained only from animal proteins and requires tamin B12 stores very economically, reabsork ncy may be due to lack of IF secretion by gast intestinal diseases). ncy frequently causes macrocytic anemia, glo coordination, and affective behavioral chang s without macrocytic anemia. nic acid and homocysteine levels are also elev or antibodies to intrinsic factor (IF) is recomm n concentration of vitamin B12 does not rule of Jar level is the assay for MMA. If clinical symp erum vitamin B12 concentrations are normal.	bing vitamin B12 from the i tric mucosa (eg, gastrecton possitis, peripheral neuropa les. These manifestations n vated in vitamin B12 defici- nended to identify this pot- pout tissue deficiency of vita ptoms suggest deficiency, r	leum and returning it to the live ny, gastric atrophy) or intestinal thy, weakness, hyperreflexia, at nay occur in any combination; m ency states. ential cause of vitamin B12 mala amin B12. The most sensitive tes	malabsorption (eg, axia, loss of any patients have bsorption. t for vitamin B12	





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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		(Pathology)
NAME : Mrs. PREM	I LATA AGGARWAL		
AGE/ GENDER : 77 YRS/FE	MALE	PATIENT ID	: 1563290
COLLECTED BY : SURJESH		REG. NO./LAB NO.	: 012407280059
REFERRED BY : CENTRAL F	PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 28/Jul/2024 11:36 AM
BARCODE NO. : 01513994		COLLECTION DATE	: 28/Jul/2024 11:40AM
CLIENT CODE. : KOS DIAGN	NOSTIC LAB	REPORTING DATE	: 02/Aug/2024 10:15AM
CLIENT ADDRESS : 6349/1, NI	ICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
	CLINICAL I	PATHOLOGY	
	URINE ROUTINE & MIC	ROSCOPIC EXAMINAT	TION
PHYSICAL EXAMINATION			
QUANTITY RECIEVED	10	ml	
by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY		
COLOUR by DIP STICK/REFLECTANCE SPECTR	AMBER YEI	LLOW	PALE YELLOW
TRANSPARANCY	CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTR			1 000 1 000
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTR	<=1.005 OPHOTOMETRY		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION	ACIDIC		
by DIP STICK/REFLECTANCE SPECTR PROTEIN	<i>орнотометку</i> Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR			
SUGAR	Negative		NEGATIVE (-ve)
<i>by DIP STICK/REFLECTANCE SPECTR</i> pH	<=5.0		5.0 - 7.5
by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY		
BILIRUBIN by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY Negative		NEGATIVE (-ve)
NITRITE	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR UROBILINOGEN	орнотометку. Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECTR		EU/UL	0.2 - 1.0
KETONE BODIES	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR BLOOD	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR ASCORBIC ACID	5		- (/
	NEGATIVE	())	NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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

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

NAME	: Mrs. PREM LATA AGGARWAI	L			
AGE/ GENDER	: 77 YRS/FEMALE	PATIEN	T ID	: 1563290	
COLLECTED BY	TRRED BY : CENTRAL PHOENIX CLUB (AMBALA CANTT) REGIST)./LAB NO.	: 012407280059 : 28/Jul/2024 11:36 AM	
REFERRED BY			RATION DATE		
BARCODE NO.			TION DATE	: 28/Jul/2024 11:40AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DA		: 02/Aug/2024 10:15AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
EPITHELIAL CELLS		3-5	/HPF	ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA) ABSENT ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report *





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

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

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