



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)
NAME	: Mrs. INDRA RANI SHARMA			
AGE/ GENDER	: 69 YRS/FEMALE		PATIENT ID	: 1575499
COLLECTED BY	:		REG. NO./LAB NO.	: 012408090034
REFERRED BY	:		REGISTRATION DATE	: 09/Aug/2024 11:55 AM
BARCODE NO.	: 01514782		COLLECTION DATE	: 09/Aug/2024 11:56AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Aug/2024 12:22PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	SWAS ⁻	THYA W	ELLNESS PANEL: 1.5	
			LOOD COUNT (CBC)	
	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11.9 ^L	gm/dL	12.0 - 16.0
<i>by CALORIMETRIC</i> RED BLOOD CELL (RE	BC) COUNT	4.69	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN	NE (PCV) NUTOMATED HEMATOLOGY ANALYZER	37.8	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	80.7	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER IR HAEMOGLOBIN (MCH)	25.5 ^L	ng	27.0 - 34.0
by CALCULATED BY	AUTOMATED HEMATOLOGY ANALYZER		pg	
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31.5 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	14.3	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	43.3	fL	35.0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER	40.0		
MENTZERS INDEX by CALCULATED		17.21	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	24.73	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS		7050		4000 11000
TOTAL LEUCOCYTE C	OUNT (TLC) Y BY SF CUBE & MICROSCOPY	7050	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
NUCLEATED RED BLO by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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



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

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Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	70	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	23	%	20 - 40

by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
LYMPHOCYTES	23	%	20 - 40
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
EOSINOPHILS	0 ^L	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES	7	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	,	70	2 - 12
BASOPHILS	0	%	0 - 1
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	4935	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHOCYTE COUNT	1622	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT	al	lamama	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 ^L	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT	494	/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 MARKEI	_		
PLATELET COUNT (PLT)	229000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT)	0.27	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.27	70	0.10 - 0.30
MEAN PLATELET VOLUME (MPV)	12	fL	6.50 - 12.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CELL COUNT (P-LCC)	95000 ^H	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR)	41.5	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	41.0	/0	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW)	16.1	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			-
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD			





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		0
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAI	EMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEM	OGLOBIN (HbA1c):	6.2	%	4.0 - 6.4
	ANCE LIQUID CHROMATOGRAPHY)			
ESTIMATED AVERAGE		131.24	mg/dL	60.00 - 140.00
	ANCE LIQUID CHROMATOGRAPHY)			
<u>INTERPRETATION:</u>				
	AS PER AMERICAN DIAB			
	FERENCE GROUP	GLYCOSYL	ATED HEMOGLOGIB (HBAIC) i	n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 - 6.4	
Dia	gnosing Diabetes	>= 6.5		
		Age > 19 Years		

turnover, and transfusion requirement	inat auversely impact fibraic as	a marker or long-term gycennic com	101.
7 Specimens from patients with polycyt	homia or nost splanctomy may	exhibit increse in HbA1c, values due	to a somewhat longer life span of the red cells

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell

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.

Goals of Therapy

Actions Suggested:

Goal of therapy:

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

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

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

Age < 19 Years

< 7.0

>8.0

<7.5



COMMENTS:

appropiate.



Therapeutic goals for glycemic control

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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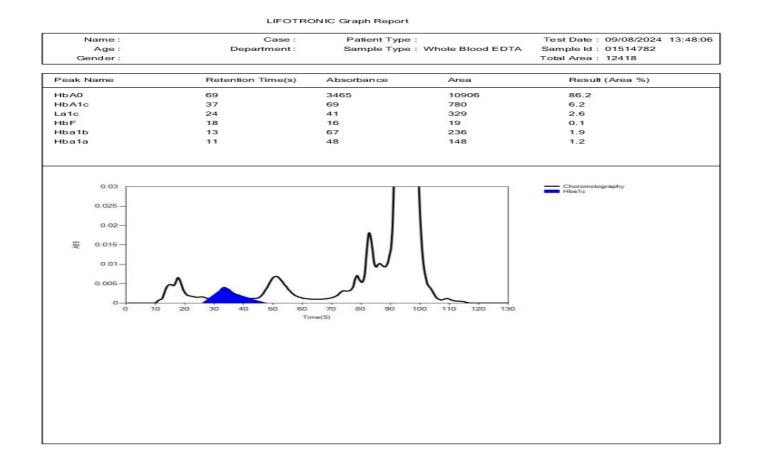
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4.High





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Aug/2024 12:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	7	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDI	MENTATION RATE (ES	र)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	14	mm/1st h	r 0 - 20
systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigi as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dexi	be used to monitor disease activ ematosus WESR in with conditions that inhibit the inficantly high white blood cell cc ie cell anaemia) also lower the E e protein (C-RP) are both markers is not change as rapidly as does C by as many other factors as is ES ed, it is typically a result of two t we a higher ESR, and menstruatic	e normal sedimen ount (leucocytosi SR. s of inflammation CRP, either at the R, making it a be ypes of proteins on and pregnancy	ntation of red blood cells, su is), and some protein abnor n. e start of inflammation or as tter marker of inflammation globulins or fibrinogen. (can cause temporary eleva	
	lk . a		Chopra	



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		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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BARCODE NO.	: 01514782	CO	LLECTION DATE	:09/Aug/2024 11:56AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:09/Aug/2024 12:45PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	NICAL CHEMISTR	Y/BIOCHEMISTR	Y
		GLUCOSE FA	STING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.
 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 ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	ILE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O		221.77 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SER	RUM PHATE OXIDASE (ENZYMATIC)	88.16	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		71.9	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: Specific Control of the second sec		132.24 ^H	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		149.87 ^H	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:		17.63	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUI by CALCULATED, SPE	M	531.7	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	3.08	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: SER by calculated, spe		1.84	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
		Λ		



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	1.23	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
LIV	/ER FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.83	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.26	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.57	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	29.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	28.3	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHY PROPANOL	111.48 L	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	21.78	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.58	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.84	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.74	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.4	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





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HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increa	sed)

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).

PROGNOSTIC SIGNIFICANCE:

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

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

Unit

Biological Reference interval

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Value

			- I g
	KIDNEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM	26.14	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)			
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	1.01	mg/dL	0.40 - 1.20
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	12.21	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	12.09	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	25.88	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.03	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.55	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry	3.57	mg/dL	2.30 - 4.70
ELECTROLYTES			
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	137.8	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.78	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	103.35	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	60.3		

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

Test Name





		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugar MD CEO & Consultan) (Pathology)	
IAME	: Mrs. INDRA RANI SHAF	RMA			
AGE/ GENDER	: 69 YRS/FEMALE	PA	TIENT ID	: 1575499	
COLLECTED BY			EG. NO./LAB NO.	: 012408090034	
	:				
REFERRED BY	•		EGISTRATION DATE	:09/Aug/2024 11:55	
BARCODE NO.	: 01514782	CO	LLECTION DATE	:09/Aug/202411:56	6AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 09/Aug/2024 01:03	3PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT			
Test Name		Value	Unit	Biological I	Reference interval
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia 	(e.g. ureter colostomy) ass (subnormal creatinine p tetracycline, glucocorticoid: 0:1) WITH ELEVATED CREATI (BUN rises disproportionat superimposed on renal dise	s) NINE LEVELS: ely more than creatinine) ase.) (e.g. obstructive uropa	athy).	
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of the second) Pregnancy. DECREASED RATIO (ass (subnormal creatinine p tetracycline, glucocorticoid 10:1) WITH ELEVATED CREATI a (BUN rises disproportionat superimposed on renal dise 10:1) WITH DECREASED BUN osis. ad starvation. e. creased urea synthesis. furea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic f 10:1) WITH INCREASED CREA	s) NINE LEVELS: ely more than creatinine) ase. diffuses out of extracellu absent in blood). narmone) due to tubular FININE:	ular fluid). secretion of urea.	athy).	
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Perenal azotemia DECREASED RATIO (<' Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (<' Phenacimide thera Rhabdomyolysis (r Muscular patients 	ass (subnormal creatinine p tetracycline, glucocorticoid i0:1) WITH ELEVATED CREATI a (BUN rises disproportionat superimposed on renal dise i0:1) WITH DECREASED BUN osis. ad starvation. e. creased urea synthesis. furea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic f i0:1) WITH INCREASED CREA py (accelerates conversion o eleases muscle creatinine). who develop renal failure.	s) NINE LEVELS: ely more than creatinine) ase. diffuses out of extracellu absent in blood). narmone) due to tubular FININE:	ular fluid). secretion of urea.	athy).	
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 Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia CRERASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. PCREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido 	ass (subnormal creatinine p tetracycline, glucocorticoid i0:1) WITH ELEVATED CREATI a (BUN rises disproportionat superimposed on renal dise i0:1) WITH DECREASED BUN osis. ad starvation. e. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic f i0:1) WITH INCREASED CREA py (accelerates conversion o eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fal:	s) NINE LEVELS: ely more than creatinine) ase. diffuses out of extracellu absent in blood). narmone) due to tubular FININE: of creatine to creatinine). se increase in creatinine	ular fluid). secretion of urea.		I ratio when dehydratior
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Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of SIADH	ass (subnormal creatinine p tetracycline, glucocorticoid: i0:1) WITH ELEVATED CREATI a (BUN rises disproportionat: superimposed on renal dise i0:1) WITH DECREASED BUN osis. ad starvation. e. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic f i0:1) WITH INCREASED CREA py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fal: creased BUN/creatinine rati rapy (interferes with creatinine function creatinine rati rapy (interferes with creatinine DESCRIPTI	s) NINE LEVELS: ely more than creatinine) ase. diffuses out of extracellu absent in blood). narmone) due to tubular FININE: of creatine to creatinine). se increase in creatinine o). ne measurement). ON GFR (mL/	ular fluid). secretion of urea. with certain methodolo min/1.73m2)	ogies,resulting in norma SSOCIATED FINDINGS	I ratio when dehydratior
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D. Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Nepeated dialysis (SIADH (syndrome of SIADH (syndrome of SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r SMAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin thera STIMATED GLOMERE CKD STAGE	ass (subnormal creatinine p tetracycline, glucocorticoid i0:1) WITH ELEVATED CREATI a (BUN rises disproportionat superimposed on renal dise i0:1) WITH DECREASED BUN osis. ad starvation. e. creased urea synthesis. urea rather than creatinine monemias (urea is virtually of inappropiate antidiuretic f i0:1) WITH INCREASED CREA py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes fall creased BUN/creatinine rati rapy (interferes with creatini JLAR FILTERATION RATE: <u>DESCRIPTI</u>	s) NINE LEVELS: ely more than creatinine) ase. diffuses out of extracellu absent in blood). harmone) due to tubular FININE: of creatine to creatinine). se increase in creatinine o). ne measurement). DN GFR (mL/ function e with	ular fluid). secretion of urea. with certain methodole min/1.73m2) AS >90 P	ogies,resulting in norma SSOCIATED FINDINGS	I ratio when dehydratior

	00 07
Moderate decrease in GFR	30-59
Severe decrease in GFR	15-29
Kidney failure	<15



G3b G4 G5

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

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









	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	obiology) ME	n Chopra D (Pathology) ht Pathologist
NAME	: Mrs. INDRA RANI SHARMA		
AGE/ GENDER	: 69 YRS/FEMALE	PATIENT ID	: 1575499
COLLECTED BY	:	REG. NO./LAB NO.	: 012408090034
REFERRED BY	:	REGISTRATION DATE	: 09/Aug/2024 11:55 AM
BARCODE NO.	:01514782	COLLECTION DATE	: 09/Aug/2024 11:56AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Aug/2024 01:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
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 Chopra MD (Pathology) **CEO & Consultant Pathologist**

NAME	: Mrs. INDRA RANI SHARMA		
AGE/ GENDER	: 69 YRS/FEMALE	PATIENT ID	: 1575499
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Test Name	Value	Unit	Biological Reference interval

		IRON	I PROFILE	
IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY		22.7 ^L	μg/dL	37.0 - 145.0
UNSATURATED IRON BINDING CAPAC SERUM by FERROZINE, SPECTROPHOTOMETERY	· · /	204.26	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC :SERUM by SPECTROPHOTOMETERY	C)	226.96 ^L	μg/dL	230 - 430
%TRANSFERRIN SATURATION: SERUN by CALCULATED, SPECTROPHOTOMETER		10 ^L	%	15.0 - 50.0
TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)		161.14 ^L	mg/dL	200.0 - 350.0
INTERPRETATION:-				
VARIABLES	ANEMIA OF C	HRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal t	to Reduced	Reduced	Normal

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.

Increased

Decreased < 12-15 %

Decreased

2. 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:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

TOTAL IRON BINDING CAPACITY (TIBC): 1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow. **% TRANSFERRIN SATURATION:**

Decreased

Decreased

Normal to Increased

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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Normal

Normal

Normal or Increased





	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. INDRA RANI SHARMA			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	TING DATE	: 09/Aug/2024 01:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
lest Name				Biological Reference interval
Test Name	TH		DGY	Biological Reference interval
TRIIODOTHYRONINI		ENDOCRINOLO (ROID FUNCTION TI 0.814	DGY	0.35 - 1.93
TRIIODOTHYRONINI by cmia (chemilumin THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSA	ENDOCRINOLO (ROID FUNCTION TI 0.814 Y) 5.63	DGY EST: TOTAL	
TRIIODOTHYRONINI by cmia (chemilumin THYROXINE (T4): SE by cmia (chemilumin THYROID STIMULAT	E (T3): SERUM <i>vescent microparticle immunoassa</i> RUM	ENDOCRINOLO (ROID FUNCTION TI 0.814 Y) 5.63	DGY EST: TOTAL ng/mL	0.35 - 1.93

day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	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 levles 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.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (T	
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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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mrs. INDRA RANI SHARMA		
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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 LE	VELS DURING PREG	NANCY (µIU/mL)		
	1st Trimester	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.

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

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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REFERRED BY	:		REGISTRATION DATE	: 09/Aug/2024 11:55 AM	
BARCODE NO.	: 01514782		COLLECTION DATE	: 09/Aug/2024 11:56AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Aug/2024 01:21PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		VIT	AMINS		
	V	ITAMIN D/25 H	DROXY VITAMIN D3		
	ROXY VITAMIN D3): SERUM ESCENCE IMMUNOASSAY)	36.7	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
DEFI	CIENT:	< 20		g/mL	
	FICIENT:	21 - 29		g/mL	
	ED RANGE:	30 - 100 > 100		g/mLg/mL	
1.Vitamin D compour	nds are derived from diefary er				





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

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
JAME	: Mrs. INDRA RANI SHARM	[A		
GE/ GENDER	: 69 YRS/FEMALE	PATIE	NT ID	: 1575499
COLLECTED BY		RFC N	[0./LAB NO.	: 012408090034
			TRATION DATE	
REFERRED BY	:			: 09/Aug/2024 11:55 AM
BARCODE NO.	: 01514782	COLLE	CTION DATE	:09/Aug/2024 11:56AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	RTING DATE	: 09/Aug/2024 01:16PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
NTERPRETATION:-	ESCENT MICROPARTICLE IMMUNC			VB12
1.Ingestion of Vitan			1.Pregnancy	
2.Ingestion of Estro			n, Anti-convulsants	, Colchicine
3.Ingestion of Vitan	nin A	3.Ethanol Igesti	on	
4.Hepatocellular in		4. Contraceptive		
5.Myeloproliferativ	e disorder	5.Haemodialysi		
6.Uremia	amin) is necessary for hemato	6. Multiple Mye		
3. The body uses its v excreted. I. Vitamin B12 deficie leal resection, small 5. Vitamin B12 deficie proprioception, poor he neurologic defec 5. Serum methylmalo 7. Follow-up testing f	ency may be due to lack of IF se intestinal diseases). ency frequently causes macroc coordination, and affective be s without macrocytic anemia. nic acid and homocysteine leve or antibodies to intrinsic factor n concentration of vitamin B12	ically, reabsorbing vitamin ecretion by gastric mucosa ytic anemia, glossitis, perip shavioral changes. These m els are also elevated in vita r (IF) is recommended to id does not rule out tissue de	B12 from the ileun (eg, gastrectomy, g pheral neuropathy, anifestations may of min B12 deficiency lentify this potentia eficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eq weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have states. Il cause of vitamin B12 malabsorption. B12. The most sensitive test for vitamin B12





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist CEO & Consultant Pathologist : Mrs. INDRA RANI SHARMA

AGE/ GENDER	: 69 YRS/FEMALE	PATIENT ID	: 1575499
COLLECTED BY	:	REG. NO./LAB NO.	: 012408090034
REFERRED BY	:	REGISTRATION DATE	: 09/Aug/2024 11:55 AM
BARCODE NO.	: 01514782	COLLECTION DATE	: 09/Aug/2024 11:56AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Aug/2024 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC EXAMINATION

PHYSICAL EXAMINATION

QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TRACE		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION



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

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



NAME







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

NAME	: Mrs. INDRA RANI SHARMA				
AGE/ GENDER	: 69 YRS/FEMALE	PATIEN	T ID	: 1575499	
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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	4-6	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON C	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 TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

ABSENT





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

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NEGATIVE (-ve)

ABSENT