



	MD	Dr. Vinay Chopra D (Pathology & Microbiology) hairman & Consultant Pathologist CE		Dr. Yugam Chopra MD (Pathology) EO & Consultant Pathologist		
NAME	: Mrs. KRISHNA	RANI				
AGE/ GENDER	: 79 YRS/FEMALI	2	PATIENT ID	: 154-	4301	
COLLECTED BY	: SURJESH		REG. NO./LAB	NO. : 012	407100038	
REFERRED BY	: CENTRAL PHOE	NIX CLUB (AMBALA CANTT)	REGISTRATIO	N DATE : 10/.	ful/2024 11:45 AM	
BARCODE NO.	:01512866		COLLECTION D	ATE : 10/3	lul/2024 11:51AM	
CLIENT CODE.	: KOS DIAGNOST	IC LAB	REPORTING D	ATE : 10/3	ul/2024 02:47PM	
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA CANTT				
Test Name		Value		Unit	Biological Refere	nce interval
URINE VOLUME: 24 HOUR by SPECTROPHOTOMETRY PROTEINS: 24 HOURS URINE by BIURET, SPECTROPHOTOMETRY INTERPRETATION:		550 114.45		mL mg/ 24 HOURS	25 -160	
TYPES OF PROTEINURIA		TOTAL PROTEINS IN mg/24 HOURS		CONDITIONS		
MINIMAL PROTEINURIA:		150 - 500 mg/24 hours		Chronic pyelonephritis, Chronic Interstial Nephritis, Renal Tubular disease, Postural		
MODERATE PROTEINURIA:					sclerosis, Multiple Myeloma, Nephropathy, Renal Calculi	
HEAVY PROTEINURIA:		1000 - 3000 mg/24 h	m	Nephrotic Syndrome, Acute Rapidly Progressive & Chronic Glomerulonephritis, Diabetes mellitus, Lupus erythematosus, Druga like Pencillamine, Heavy metals like		

NOTE:

1. Excreation of total protein in individuals is highly variable with or without kidney disease.

2. Conditions affecting protein excreation other than kidney didease are urinary tract infection, diet, mensturation & physical activity.

COMMENT:

1. Diagnosis of kidney disease and response to therapy is usually obtained by quatitattively analyzing the amount of protein excreated in urine over a 24 hour period.

Gold & Mercury



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MD (Pa	inay Chopra athology & Microbiology) nan & Consultant Pathologis		(Pathology)
NAME	: Mrs. KRISHNA RA	NI		
AGE/ GENDER	: 79 YRS/FEMALE		PATIENT ID	: 1544301
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407100038
REFERRED BY	: CENTRAL PHOENIX	CLUB (AMBALA CANTT)	REGISTRATION DATE	: 10/Jul/2024 11:45 AM
BARCODE NO.	: 01512866		COLLECTION DATE	: 10/Jul/2024 11:51AM
CLIENT CODE.	: KOS DIAGNOSTIC L	AB	REPORTING DATE	: 13/Jul/2024 05:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSC	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			VESTIGATIONS OPHORESIS: SERUM	
TOTAL PROTEINS: SE		6.2	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.62	gm/dL	3.50 - 5.50
by MIGRATION GEL ELECTROPHORESIS GLOBULIN: SERUM by MIGRATION GEL ELECTROPHORESIS		2.58	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by MIGRATION GEL ELECTROPHORESIS		1.4	RATIO	1.00 - 2.00
ALPHA 1 GLOBULIN by MIGRATION GEL EL		0.35	gm/dL	0.11 - 0.40
ALPHA 2 GLOBULIN by MIGRATION GEL EL		0.8	gm/dL	0.43 - 1.03
BETA 1 GLOBULIN by MIGRATION GEL EL		0.42	gm/dL	0.30 - 0.59
BETA 2 GLOBULIN by MIGRATION GEL EL		0.32	gm/dL	0.20 - 0.53
GAMMA GLOBULIN by MIGRATION GEL E		0.69 ^L	gm/dL	0.75 - 1.80
MYELOMA (M) BANE	D/SPIKE	NO MONC SEEN	CLONAL BAND gm/dL	
INTERPRETATION			IMAGLOBULINEMIA	

INTERPRETATION:

1.Serum protein electrophoresis is commonly used to identify patients with multiple myeloma and disorders of serum proteins.

2. Electrophoresis is a method of separating proteins based on their physical properties. the pattern of serum protein electrophoresis results depends on the frations of 2 types of protein : albumin and globulin (alpha 1 alpha2, beta and gamma.)

3.A homogeneous spike-like peak in a focal region of the gamma-globulin zone indicates a monoclonal gammopathy.

4. Monoclonal gammopathies are associated with a clonal process that is malignant or potentially malignant, including multiple myeloma, Waldenstrom macroglobulinemia, solitary plasmacytoma, smoldering multiple myeloma, monoclonal gammopathy of undetermined significance, plasma cell leukemia, heavy chain disease, and amyloidosis.

5.M-protein (in the gamma region) level greater than 3 g/dL should be interpreted along with other radiologic and haematological findings to arrive at a diagnosis of Multiple myeloma and must not be considered in isolation.

6.Occasionally M protein may appear as a narrow spike in the beta or alpha2 regions also.

7.Up to one fifth of patients with Myeloma may have an M-protein spike of less than 1 g /dL.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. KRISHNA RANI		
AGE/ GENDER	: 79 YRS/FEMALE	PATIENT ID	: 1544301
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8. Hypogammaglobulinemia on serum protein electrophoresis occurs in about 10% of patients with multiple myeloma who do not have a serum M-protein spike.

9. Most of these patients have a large amount of Bence Jones protein (monoclonal free kappa or lambda chain) in their urine, wherein urine protein electrophoresis should be performed. Monoclonal gammopathy is present in up to 8 percent of healthy geriatric patients. NOTE:

The following conditions require serum immunofixation to confirm monoclonality or to differentiate monoclonal and polyclonal disoders. 1.A well defined "M" band.

2.Faint band

3.Chronic inflammatory pattern (decreased albumin, increased alpha, increased gamma fractions)

4. Isolated increase in any region with an otherwise normal pattern.5. Shouldering of albumin peak along anodal or cathodal side may be seen with lipoproteins, drugs, bilirubin or radiological contrast.

*** End Of Report ***





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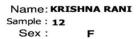
DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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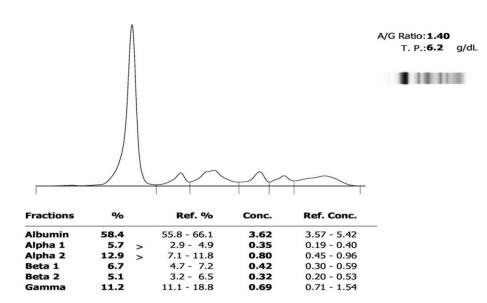


KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, SADAR BAZAR, AMBALA CANTT. HARYANA-133001

PROTEIN ELECTROPHORESIS



Date: 7/11/2024 ID: 0517811495 Age :79



Signature

-- End of Report --



Tests marked with NABL symbol are accredited by NABL vide Certificate no MC-2676; Validity till 04-04-2026

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Dr. Chakshu Bansal M.D (Pathology) (DMC Reg. No. - 66994)

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