



GOVERNMENT OF JAMMU & KASHMIR  
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES  
SOURA SRINAGAR

**Syllabus for Assistant Professor Posts of  
the Department of Nephrology,  
SKIMS, SOURA.**

## **Basic Nephrology**

Renal Anatomy,

Renal Physiology

Investigation of Renal Disease

Assessment of Glomerular Filtration Rate

Urinalysis

Point of Care Ultrasound in Nephrology,

Radiologic and Nuclear Imaging in Nephrology,

Kidney Biopsy

Fluid and Electrolyte Disorders

Disorders of Extracellular Volume,

Disorders of Water Metabolism

Disorders of Potassium Metabolism

Disorders of Calcium, Phosphate, and Magnesium Metabolism

Normal Acid-Base Balance

Metabolic Acidosis

Metabolic Alkalosis

Respiratory Acidosis, Respiratory Alkalosis, and Mixed

Acid-Base Disorders

## **General Nephrology**

Glomerular Disease

Introduction to Glomerular Disease: Clinical Presentations

Introduction to Glomerular Disease: Histologic Classification and Pathogenesis

Minimal Change Disease

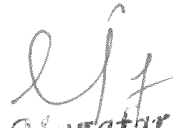
Primary and Secondary (Nongenetic) Causes of Focal and Segmental Glomerulosclerosis

Inherited Causes of Nephrotic Syndrome


Membranous Nephropathy

Immunoglobulin-Mediated Glomerulonephritis with a Membranoproliferative Pattern of Injury and


Cryoglobulinemic Glomerulonephritis

  
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Glomerulonephritis Associated with Complement Disorders  
Immunoglobulin A Nephropathy and Immunoglobulin A Vasculitis (Henoch-Schönlein Purpura)  
Anti-Glomerular Basement Membrane Disease and Goodpasture Disease  
Renal and Systemic Vasculitis  
Lupus Nephritis  
Monoclonal Immunoglobulin-Related Glomerular  
Diseases and Renal Amyloidosis  
Rare Glomerular Disorders  
Thrombotic Microangiopathies, Including Hemolytic Uremic Syndrome  
Diabetic Kidney Disease  
Pathogenesis, Clinical Manifestations, and Natural History of Diabetic Kidney Disease  
Prevention and Treatment of Diabetic Kidney Disease  
Management of Patients with Diabetes and Chronic Kidney Disease  
Hypertension  
Normal Blood Pressure Control and the Evaluation of Hypertension  
Primary Hypertension  
Nonpharmacologic Prevention and Treatment of Hypertension  
Pharmacologic Treatment of Hypertension  
Evaluation and Treatment of Hypertensive Urgencies and Emergencies  
Endocrine Causes of Hypertension: Aldosterone  
Other Endocrine Causes of Hypertension  
Neurogenic Hypertension, Including Hypertension Associated With Stroke or Spinal Cord Injury  
Blood Pressure Management in the Dialysis Patient  
Renovascular Disease  
Renovascular Hypertension, Atherosclerotic Renal Vascular Disease, and Thromboembolic Kidney  
Disease,  
Pregnancy and Renal Disease  
Kidney Physiology and Complications in Normal Pregnancy  
Pregnancy With Preexisting Kidney Disease

  
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Hereditary and Congenital Diseases of the Kidney  
Autosomal Dominant Polycystic Kidney Disease  
Other Cystic Kidney Diseases  
Alport Syndrome and Other Familial Glomerular Syndromes  
Inherited Disorders of Sodium and Water Handling  
Fanconi Syndrome and Other Proximal Tubule Disorders  
Sickle Cell Diseases and the Kidney  
Congenital Anomalies of the Kidney and Urinary Tract  
Infectious Diseases and the Kidney  
Urinary Tract Infections in Adults  
Tuberculosis of the Urinary Tract  
Fungal Infections of the Urinary Tract  
The Kidney in Schistosomiasis  
Glomerular Diseases Associated With Infection  
Human Immuno-deficiency Virus Infection and the Kidney  
Kidney Diseases Associated With Coronaviruses  
Urologic Disorders  
Nephrolithiasis and Nephrocalcinosis  
Urinary Tract Obstruction  
Primary Vesicoureteral Reflux and Reflux Nephropathy,  
Urologic Issues for the Nephrologist  
Tubulointerstitial and Vascular Diseases  
Acute Interstitial Nephritis  
Chronic Interstitial Nephritis  
Endemic Nephropathies  
Renal Disease and Cancer  
Oncology: Kidney Disease in Cancer Patients  
Myeloma and the Kidney

  
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Kidney Disease in Liver, Cardiac, Lung, and Hematopoietic Stem Cell Transplantation  
Acute Kidney Injury  
Pathophysiology and Etiology of Acute Kidney Injury  
Acute Kidney Injury in the Tropics  
Diagnosis and Clinical Evaluation of Acute Kidney Injury  
Epidemiology and Prognostic Impact of Acute Kidney Injury and Acute Kidney Disease  
Prevention and Non-dialytic Management of Acute Kidney Injury  
Extracorporeal Therapies for Acute Kidney Injury and Heart Failure  
Hepatorenal Syndrome.  
Drug Therapy in Kidney Disease  
Principles of Drug Therapy, Dosing, and Prescribing in Chronic Kidney Disease and Kidney Replacement Therapy  
Common Issues in Prescribing in Kidney Disease and Kidney Replacement Therapy  
Herbal and Over-the-Counter Medicines and the Kidney  
Chronic Kidney Disease and Uremic Syndrome  
Epidemiology of Chronic Kidney Disease and Dialysis  
Pathophysiology of Disease Progression in Proteinuric and Nonproteinuric Kidney Disease  
Slowing the Progression of Kidney Disease  
Clinical Evaluation and Management of Chronic Kidney Disease  
Pathogenesis and Risk of Cardiovascular Disease in Chronic Kidney Disease  
Practical Management of Cardiovascular Disease in Chronic Kidney Disease  
Anemia in Chronic Kidney Disease  
Other Blood and Immune Disorders in Chronic Kidney Disease  
Bone and Mineral Disorders in Chronic Kidney Disease  
Neurologic Complications of Chronic Kidney Disease  
Nutrition in Chronic Kidney Disease  
Dermatologic Manifestations of Chronic Kidney Disease  
Acquired Cystic Kidney Disease and Malignant Neoplasms  
Geriatric and Palliative Nephrology

  
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## **Dialysis and Transplant**

Approach to Kidney Replacement Therapy

Vascular Access for Hemodialysis

Diagnostic and Interventional Nephrology

Hemodialysis: Principles and Techniques

Hemodialysis: Dialysis Prescription and Adequacy

Acute Complications During Hemodialysis

Peritoneal Dialysis: Principles, Techniques, and Adequacy

Complications of Peritoneal Dialysis

Extracorporeal Therapies for Drug Overdose and Poisoning

Plasma Exchange

Transplantation

Immunologic Principles in Kidney Transplantation

Immunosuppressive Medications in Kidney Transplantation

Evaluation and Preoperative Management of Kidney Transplant Recipient and Donor

Kidney Transplantation Surgery

Prophylaxis and Treatment of Kidney Transplant Rejection

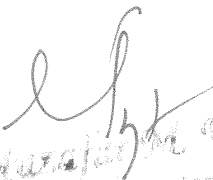
Infections and Malignancies in the Kidney Transplant Recipient

Cardiovascular Disease and Metabolic Abnormalities in the Kidney Transplant Recipient

Chronic Allograft Injury

Recurrent Disease in Kidney Transplantation

Outcomes of Kidney Transplantation: Identification, Measures, and Evaluation

  
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