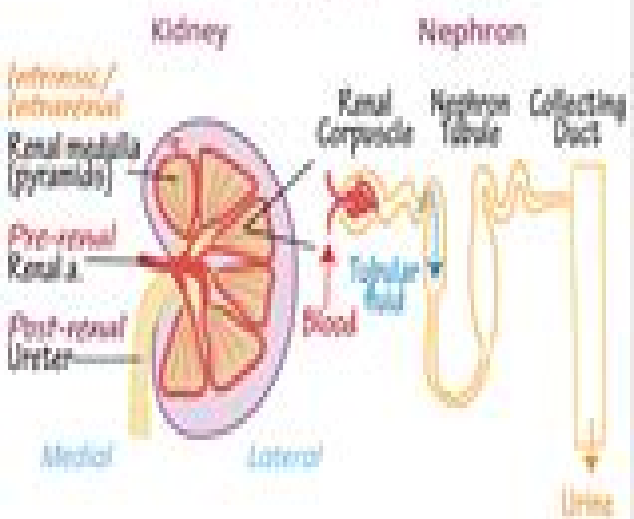




# RENAL PATHOLOGY OVERVIEW

## ANATOMY



## RENAL FAILURE

Excess retention of nitrogenous waste products & electrolyte disturbances

- Metabolic Acidosis
- Dyslipidemia
- Hyperkalemia
- Uremia
- $\text{Na}^+/\text{H}_2\text{O}$  retention (w/ HF, pulm. edema, HTN)
- Growth retardation/ dev. delay
- Erythropoietin deficiency (anemia)
- Renal osteodystrophy

**ACUTE KIDNEY INJURY:**  $\uparrow$  Creatinine  $\downarrow$  Urine volume.

**Pre-renal (hemodynamics):**

- Intravascular volume depletion
- Bilateral renal stenosis
- Heart failure
- ACE inhibitors, ARBs
- Hypotension

**Intrinsic/Intra-renal**

- Vascular: vasculitis, malignant hypertension, TTP-HUS
- Glomerular:
  - Nephrotic syndrome: focal segmental glomerulosclerosis, membranous nephropathy, minimal change disease
  - Nephritic syndrome: Infection-associated, IgA nephropathy, Anti GBM, etc.
- Tubular: Acute tubular necrosis
- Interstitial: Acute interstitial nephritis
- Urine  $\text{Na}^+ > 40 \text{ mEq/L}$ ,  $\text{FeNa} > 2\%$

**Post-renal (obstructive)**

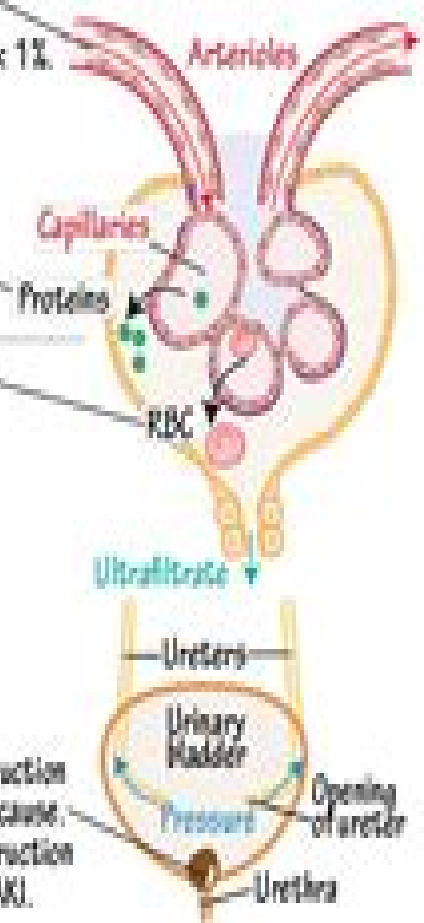
- Congenital: renal dysplasia
- Tumors (prostate, etc. cause compression)
- Stones: calcium, ammonium magnesium phosphate, uric acid, cystine.
- Infection

## CHRONIC KIDNEY INJURY

- Diabetes
- 1° Glom. nephritis
- Hypertension (2° Glom. nephritis)
- AD polycystic kidney disease

**Azotemia** = Inc Blood Urea Nitrogen (BUN), creatinine, other waste products in the blood.

- $\downarrow$  Renal Blood Flow =  $\downarrow$  GFR
- Urine  $\text{Na}^+ < 20 \text{ mEq/L}$ ,  $\text{FeNa} < 1\%$
- SCr drops with fluid admin.



- Bladder outlet obstruction is the most common cause.
- Unilateral renal obstruction less often assoc. w/ AKI.

**Uremia** = Azotemia that leads to cluster of signs/symptoms in various body systems. Usually in CKI, can be AKI

**End-Stage Renal Disease** = GFR is  $< 5\%$  normal. Terminal stage of uremia.



# Renal Pathology

**Gavino Faa, Vassilios Fanos**



## **Renal Pathology:**

Fundamentals of Renal Pathology Agnes Fogo, Jan A. Bruijn, Arthur H. Cohen, Robert B. Colvin, J. Charles

Jennette, 2007-04-03 Written by a team of 5 well respected and world renowned renal pathologists The Fundamentals of Renal Pathology will provide the general pathologist pathology residents and fellows in training the renal pathologist and the nephrologist and nephrology resident with a compact and up to date resource on the basics of renal pathology Beginning with the basic concepts and methods in renal pathology the text covers renal anatomy including gross and microscopic appearance and pathogenic mechanisms in renal diseases With an emphasis on clinical pathological correlation and differential diagnosis the handbook will provide discussions on such topics as glomerular disease with nephritic and nephritic syndrome presentations systemic diseases affecting the kidney vascular diseases affecting the kidney and much more Abundantly illustrated with 107 photographs throughout and 84 in color

### **Diagnostic Atlas of Renal Pathology E-Book**

Agnes B. Fogo, Michael Kashgarian, 2016-09-21 Recognize and diagnose a wide range of renal pathologic entities with Diagnostic Atlas of Renal Pathology 3rd Edition In this edition Drs Agnes B Fogo and Michael Kashgarian use hundreds of high quality illustrations to clearly depict the pathologic features and clinical manifestations of both common and rare renal disorders Extensive updates to the text keep you current with the knowledge you need for clinical practice or continuing education and certification More than 700 images of light immunofluorescence and electron microscopy for each diagnostic entity with correlations to clinical presentation and pathogenesis Focused detailed discussions on key characteristic pathologic findings and prognostic pathogenetic and etiologic information An in depth examination of pathophysiology clinical presentations and the latest evidence based practices User friendly format features tables and sidebars with key points and differential diagnoses and chapters that include concise templated discussions regarding the etiology and pathogenesis of the disorder Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability A new chapter describing a logical approach to differential diagnosis New insights into pathogenesis and classification of diseases New coverage of aging and the kidney endemic diseases transplant lupus related kidney diseases Mesoamerican nephropathy ApolL1 related nephropathies C3 glomerulopathies and thrombotic microangiopathies Recent results of consensus conferences on vasculitides and renal neoplasia

### **Silva's Diagnostic Renal Pathology** Xin J.

Zhou, Fred G. Silva, 2009-04-27 The kidneys are responsible for many key bodily functions but their primary role as a filter of toxins makes them extremely susceptible to disease Often these diseases can only be diagnosed through a renal biopsy a complicated procedure requiring ancillary immunologic and molecular diagnostic techniques This book covers all methods used by renal pathologists to diagnose a wide range of kidney diseases Unlike most literature on renal pathology this book is situated on the midpoint between encyclopedic and superficial coverage written for the signing out pathologist While focusing on tumors and transplantation rejection a full spectrum of infectious inflammatory and congenital disorders is

covered in both pediatric and adult populations and is analyzed not only by light microscopy but by each applicable diagnostic modality available The text is illustrated with more than 1 000 photomicrographs and diagrams including a CD ROM of all images      **Atlas of Medical Renal Pathology** Stephen M. Bonsib,2014-07-08 The kidney is an organ with complex organogenesis susceptible to numerous misadventures in development and is exposed to a diverse array of insults of hematogenous and lower urinary tract origin This Atlas of Medical Renal Pathology provides an overview of the development macroscopic and microscopic features of the normal kidney This is followed by a comprehensive survey of developmental and cystic kidney diseases vascular diseases and tubulointerstitial diseases An emphasis is placed on gross diagnostic findings with detailed histological correlates In addition the histological immunofluorescent immunohistochemical and ultrastructural features of the major glomerular diseases and renal transplantation pathology are presented This compendium of non neoplastic kidney diseases illustrates the vast majority diseases you are likely to encounter in surgical and autopsy pathology

*Heptinstall's Pathology of the Kidney* J. Charles Jennette,2007 Experts in the field of renal disease offer careful pathologic descriptions appropriate clinical correlations and extensive discussions on causes and pathogenesis to clarify the clinicians understanding and help facilitate easy accurate diagnosis This updated edition features hundreds of razor sharp illustrations along with more international contributors than before      **Silva's Diagnostic Renal Pathology** Xin J. Zhou,Zhou,Zoltan G.

Laszik,Tibor Nadasdy,Vivette D. D'Agati,2017-03-02 An algorithmic approach to interpreting renal pathology updated in light of recent advances in understanding and new classification schemes      Practical Renal Pathology, A Diagnostic Approach

E-Book Donna J. Lager,Neil Abrahams,2012-11-07 Practical Renal Pathology helps you apply a systematic pattern recognition approach to achieve more accurate diagnoses of both neoplastic and non neoplastic diseases of the kidneys This volume in the Pattern Recognition Series helps you to efficiently and confidently evaluate even the most challenging histologic specimens Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Compare your specimens to commonly seen patterns categorize them accordingly and turn directly to in depth diagnostic guidance using the unique pattern based Visual Index at the beginning of the book Assess key pathologic and clinical aspects of both neoplastic and non neoplastic conditions with over 750 high quality full color images that help you evaluate and interpret biopsy samples Benefit from expert guidance in key areas such as renal biopsy interpretation handling of nephrectomy specimens pathology relevant to renal transplantation and pathology of unusual renal neoplasms Progress logically from the histologic pattern through the appropriate workup around the pitfalls to the best diagnosis      **Handbook of Renal Biopsy**

**Pathology** Alexander J. Howie,2001 This short and clear book has a different approach from others on the pathology of the kidney Most texts consider each disease separately on the assumption that the diagnosis has been made This text is more useful in practice and shows how a diagnosis can be given on a renal biopsy specimen when the clinical indication for the

biopsy is known There is guidance on differential diagnosis with notes on other matters including pathogenesis prognosis and where relevant the historical background of common renal disorders This interesting book will be helpful to pathologists and trainee pathologists who look at renal biopsy specimens nephrologists renal transplant surgeons and their trainees who take the specimens medical students who will be the next generation to take and report the specimens nurses in nephrology dialysis and renal transplant units and pharmacists and others dealing with people with diseases of the kidney

**Diagnostic Atlas of Renal Pathology E-Book** Agnes B. Fogo, Michael Kashgarian, 2011-09-29 Diagnostic Atlas of Renal Pathology by Agnes B Fogo MD and Michael Kashgarian MD delivers practical highly visual guidance for effectively and accurately diagnosing a wide range of pathologic entities More than 700 high quality illustrations help you to recognize the pathologic features and clinical manifestations of both common and rare renal disorders and to formulate confident and accurate diagnoses Thoroughly updated throughout this companion to Brenner Age Related Sclerosis Glomerular vs Tubulointerstitial vs Vascular Disease and the differential diagnostic approach to Segmental Glomerulosclerosis lesions Extensive updates to all previous chapters include new classifications of various diseases such as IgA nephropathy diabetic nephropathy crescentic GN and renal transplant rejection Stay well informed about hot topics including acute phosphate nephropathy new concepts in the pathogenesis of thrombotic microangiopathies and eclampsia and new information relative to etiology and pathogenesis of podocytopathies Quickly access the information you need thanks to a user friendly format tables and sidebars with key points and differential diagnoses and chapters that include concise templated discussions regarding the etiology and pathogenesis of the disorder Diagnostic Pathology: Kidney Diseases Robert B. Colvin, Anthony Chang, Lynn D. Cornell, 2023-07-24 This expert volume in the Diagnostic Pathology series is an excellent point of care resource for practitioners at all levels of experience and training Covering the full range of common and rare nonneoplastic renal diseases it incorporates the most recent scientific and technical knowledge in the field to provide a comprehensive overview of all key issues relevant to today's practice Richly illustrated and easy to use Diagnostic Pathology Kidney Diseases fourth edition is a visually stunning one stop resource for every practicing pathologist nephrologist resident student or fellow as an ideal day to day reference or as a reliable training resource Provides a comprehensive source for key pathologies and clinical features of more than 265 kidney diseases Features two dozen new chapters on a variety of timely topics including COVID 19 nephropathies xenografts artificial intelligence AI digital pathology analysis harmonized nephropathology terminology newly identified types of amyloidosis common artifacts and pitfalls on kidney biopsy vaccination associated renal disease crystal nephropathies and much more Includes updates from the International Kidney and Monoclonal Gammopathy IKMG research group the American College of Rheumatology European League Against Rheumatism ACR EULAR classification criteria for IgG4 related disease Banff Foundation for Allograft Pathology and others Details updated genetic causes of nephrotic syndromes and antinephrin antibodies in podocytopathies by the investigator who discovered it Discusses

the newly identified variant IgG nephropathy and novel membranous autoantigens Contains chapters on techniques including immunofluorescence on paraffin sections C4d staining and polyomavirus detection in tissue Contains more than 4 300 print and online images including high resolution photographs and histologic images full color medical illustrations radiologic images and more Employs consistently templated chapters bulleted content key facts a variety of tables annotated images pertinent references and an extensive index for quick expert reference at the point of care Shares the expertise of internationally recognized authors who provide fresh perspectives on multiple topics with a particular emphasis on practical information that directly assists in making and supporting a diagnosis Includes an eBook version that enables you to access all text figures and references with the ability to search customize your content make notes and highlights and have content read aloud

**Diagnostic Pathology: Kidney Diseases E-Book** Robert B. Colvin,Anthony Chang,Lynn D.

Cornell,2023-08-16 This expert volume in the Diagnostic Pathology series is an excellent point of care resource for practitioners at all levels of experience and training Covering the full range of common and rare nonneoplastic renal diseases it incorporates the most recent scientific and technical knowledge in the field to provide a comprehensive overview of all key issues relevant to today s practice Richly illustrated and easy to use Diagnostic Pathology Kidney Diseases fourth edition is a visually stunning one stop resource for every practicing pathologist nephrologist resident student or fellow as an ideal day to day reference or as a reliable training resource Provides a comprehensive source for key pathologies and clinical features of more than 265 kidney diseases Features two dozen new chapters on a variety of timely topics including COVID 19 nephropathies xenografts artificial intelligence AI digital pathology analysis harmonized nephropathology terminology newly identified types of amyloidosis common artifacts and pitfalls on kidney biopsy vaccination associated renal disease crystal nephropathies and much more Includes updates from the International Kidney and Monoclonal Gammopathy IKMG research group the American College of Rheumatology European League Against Rheumatism ACR EULAR classification criteria for IgG4 related disease Banff Foundation for Allograft Pathology and others Details updated genetic causes of nephrotic syndromes and antinephrin antibodies in podocytopathies by the investigator who discovered it Discusses the newly identified variant IgG nephropathy and novel membranous autoantigens Contains chapters on techniques including immunofluorescence on paraffin sections C4d staining and polyomavirus detection in tissue Contains more than 4 300 print and online images including high resolution photographs and histologic images full color medical illustrations radiologic images and more Employs consistently templated chapters bulleted content key facts a variety of tables annotated images pertinent references and an extensive index for quick expert reference at the point of care Shares the expertise of internationally recognized authors who provide fresh perspectives on multiple topics with a particular emphasis on practical information that directly assists in making and supporting a diagnosis Includes an eBook version that enables you to access all text figures and references with the ability to search customize your content make notes and highlights and have content

read aloud      **Renal Pathology in Biopsy** H.U. Zollinger, M.J. Mihatsch, 2012-12-06 Vor die Therapie setzten die Gotter die Diagnose Otto Niigeji Renal biopsy has decisively enriched renal diagnostics Kidney diseases may be monitored during their entire course and new techniques such as immunofluorescence and electron microscopy may be systematically applied resulting in novel insights into the morphogenesis pathogenesis and etiology of kidney lesions These insights in turn have served as new starting points in the spirit of the quotation above for the institution of causal therapy by the clinician This work presents our findings based on 20 years of experience in evaluating renal biopsies As of the end of 1974 our computer supported systematic clinical morphologic and follow up evaluation of case material consisted of over 2000 biopsies including 679 examined by electron microscopy and 400 by immunofluorescence microscopy The subsequent 500 biopsies 400 studied by electron microscopy and 300 by immunofluorescence were considered qualitatively only In order to enhance qualitative findings with quantitative data it was necessary to devise new methods for quantifying electron microscopic findings Additionally we attempted to correlate cyto logic and immunofluorescent observations to integrate the isolated findings of electron microscopy into a vital cytologic pattern of reactions We also attempted to evaluate the almost overwhelming flood of publications especially those appearing within the last 10 years The idea for this book was conceived a decade ago At that time however our own experience in renal biopsy diagnostics seemed insufficient to support such a major undertaking

Pathology of the Medical Kidney. An Issue of Surgical Pathology Clinics Anthony Chang, 2014-09-28 Non neoplastic diseases are the focus of coverage in this issue of Surgical Pathology Clinics Topics include Non neoplastic diseases in kidney cancer Nephrectomy for non neoplastic causes Autopsy renal pathology Practical approach to kidney donation workup Kidney allograft pathology Renal infections Amyloidosis all subtypes Histologic classifications in renal pathology pros and cons Renal molecular pathology Emerging concepts and controversies in renal pathology This issue is intended for surgical pathologists and those with clinical practices in diagnostic renal pathology and kidney research Anthony Chang whose clinical practice and research is focused on renal pathology leads this issue      **Fundamentals of Renal Pathology** Agnes B. Fogo, Arthur H. Cohen, Robert B. Colvin, J. Charles Jennette, Charles E. Alpers, 2013-10-24 Fundamentals of Renal Pathology is a compact and up to date resource on the basics of renal pathology that will be of particular value for residents and fellows in training in renal pathology general pathology and nephrology but will also serve as a handy reference for the more experienced This second revised and updated edition of the book offers an integrated approach based on contributions from established experts in the field Key diseases are discussed within the context of clinical presentations with the emphasis on clinicopathological correlation and differential diagnosis Topics discussed include glomerular diseases with nephrotic or nephritic syndrome presentations systemic and vascular diseases affecting the kidney including diseases affecting the renal transplant tubulointerstitial diseases and plasma cell dyscrasias and associated diseases Well chosen color illustrations and electron micrographs enhance and complement the text      *Urologic Surgical Pathology* David G. Bostwick, Liang

Cheng, 2008-01-01 With sweeping revisions throughout the new edition of Urologic Surgical Pathology equips you to accurately diagnose specimens of the entire urinary tract and male reproductive system plus the adrenal glands Comprehensive in scope this title begins with a look at normal anatomy and histology for each organ system followed by discussions of the pathology of congenital anomalies inflammations non neoplastic diseases and neoplasia Practical guidance in daily urological pathology sign out and the latest recommended diagnostic approaches with an emphasis on clinicopathologic and radiographic pathologic correlations makes this a true diagnostic decision making medical reference A consistent format enables you to locate critical information quickly and more than 1600 high quality illustrations most in full color make diagnosis even easier A great update of a well know textbook Uropathology colleagues find it useful Reviewed by PathLab org June 2014 Rely on the practice proven experience of today s authorities to identify and diagnose with confidence Confirm your diagnostic suspicions by comparing your findings to more than 1600 color images and color graphics Quickly locate the specific information you need through an abundance of tables diagrams and flowcharts boxed lists of types and causes of diseases differential diagnosis characteristic features of diseases complications classifications and staging Access the fully searchable text and images online at Expert Consult Stay current with the latest information on differential diagnosis for all tumor types encountered in urological surgical pathology practice urologic tumor specimen handling and reporting guidelines new entities and updated classification schemes and newer immunohistochemical and genetic diagnostic methods Develop targeted therapy specific to a particular patient s problem based on key molecular aspects of disease especially in relevance to targeted therapy personalized medicine Provide the clinician with the most accurate diagnostic and prognostic indicators by incorporating the latest classification and staging systems in your reports Deepen your understanding of new diagnostic biomarkers and their utility in differential diagnosis Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued **Atlas of Renal Pathology** R.A.

Risdon, D.R. Turner, 2012-12-06 This book is intended as a practical bench manual phological abnormalities in renal diseases and for the hospital pathologist who wishes to have where appropriate these have been illustrated access to a simple informative account of renal Although the main emphasis is on the pathology pathology particularly for the interpretation of the relevant clinical aspects of the conditions cov percutaneous needle biopsy specimens I n addition ered are included in recognition of the fact that we trust it will be valuable to physicians working renal disease is an area in which correlation of the in the field of renal disease for whom the interpre clinical and histopathological findings is particularly tation of renal biopsy material is directly relevant to important in reaching an informed diagnosis patient management Whilst a

comprehensive coverage more appropriate to a larger text has not been attempted the Acknowledgements text has been planned to give an adequate account of the more important non neoplastic disease processes We would like to thank the technical staff of the Histopathology Laboratories of The London Hospital for their assistance and their pathological appearances in the Histopathology Laboratories of The London Hospital for Sick Children differential diagnosis are covered both in the text and in the illustrations

**Kidney Development in Renal Pathology**  
Gavino Faa, Vassilios Fanos, 2014-08-09 This volume provides a comprehensive state of the art review in the field of experimental and human nephrogenesis The book reviews new data on the effects on kidney development by neonatal asphyxia obstructive uropathies nephrotoxic drugs malnutrition underfeeding overfeeding and provides all possible preventive measures to ensure the well being of the kidney at birth The book also discusses the possible implications between renal development and the insurgence of kidney disease in adult life and the correlation with renal carcinogenesis Written by well recognized experts in their fields Kidney Development in Renal Pathology is a valuable tool for pathologists neonatologists nephrologists gynecologists and researchers with an interest in kidney diseases

**Renal Pathology in Biopsy** U Riede, G Thiel, J Torhorst, 1977-12-01  
**International Review of Experimental Pathology** G. W. Richter, 2013-10-22 International Review of Experimental Pathology Volume 30 is organized around the theme of renal disease The choice of renal disease reflects both the author's personal interest and the realization that there is a need for such a collection of reviews in this area There are many new books on renal pathology but almost all have a clinical rather than experimental orientation The book opens with a chapter on the pathogenesis of experimentally induced renal papillary necrosis and upper urothelial carcinoma Subsequent chapters deal with the use of cell cultures in the study of renal diseases mechanisms of cyclosporine nephrotoxicity in humans and animal systems spontaneously occurring renal diseases in laboratory animals and the use of video microscopy to define the reactivity of the renal microvasculature and the hydraulic permeability of the glomerular capillaries This book will be of interest to a diverse group of readers interested in renal disease This broad spectrum of potential readership is reflected in the list of contributors which includes in addition to pathologists nephrologists anatomists veterinarians and experimental chemists This volume will also be of interest to transplant surgeons and to pediatricians specializing in renal disease

**Diagnostic Atlas of Renal Pathology** Agnes B. Fogo, Michael Kashgarian, 2021-11 For today's nephrologist who is tasked with diagnosing a wide range of renal pathologic entities Diagnostic Atlas of Renal Pathology is a must have reference for everyday use The updated 4th Edition offers an in depth examination of pathophysiology clinical presentations and the latest evidence based practices Hundreds of pertinent macro and or microscopic images are presented in a user friendly manner intended specifically for renal pathology Offers templated detailed discussions on key characteristic pathologic findings and prognostic pathogenetic and etiologic information for each disorder Features numerous tables and sidebars with key points and differential diagnoses Covers major

new advances in the classification and diagnosis of select tubular cystic diseases new advances in classification of fibrillary processes and C3 related diseases ongoing work in lupus and advances in IgA nephropathy as well as transplantation  
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