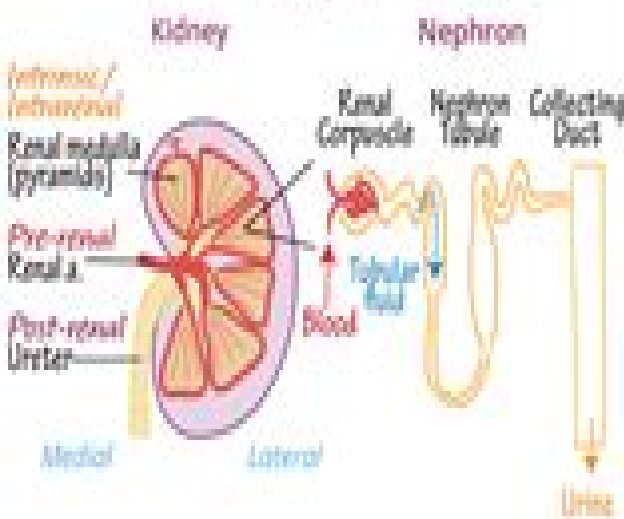




RENAL PATHOLOGY OVERVIEW

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: ↑ Creatinine ↓ 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)

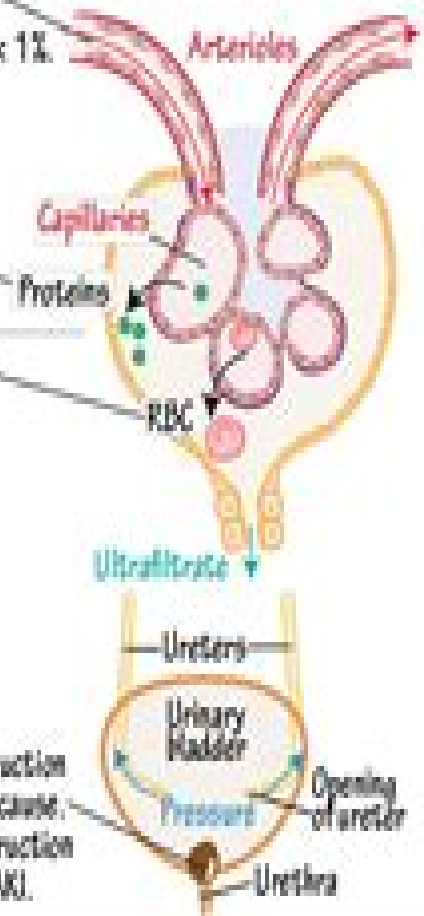
- Congenital: renal dysplasia
- Tumors (prostate, etc. cause compression)
- Stones: calcium, ammonium magnesium phosphate, uric acid, cystine.
- Infection

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.

- ↓ Renal Blood Flow = ↓ 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:

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

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

Handbook of Renal Biopsy Pathology Alec J. Howie, 2012-12-06 1 This book is meant to be a practical guide to interpretation of renal biopsy specimens Two things follow First the book has much less text than most on renal pathology because only a little is said about pathogenesis and other matters not directly relevant to interpretation nor are diseases mentioned that are not investigated by biopsy such as many developmental disorders nor is there much on rare conditions Large and comprehensive textbooks can be consulted where

necessary The second thing is that this book has a different approach from standard texts in pathology These consider each disease separately as identified known defined entities This is excellent if a pathologist knows what to call the disease in a particular specimen and wishes to confirm the diagnosis or find out more about it but is little use if the pathologist has no idea about the diagnosis Most pathologists have experience of the search through many descriptions of diseases in textbooks to try to find the name that seems the most appropriate for the abnormalities in a specimen This book should be seen as a guide into the standard texts that may be used as references for further information once a diagnosis has been made This book tries to help the pathologist by the use of two rules common things are common and diseases present in characteristic clinical ways The book is arranged by clinical presentation rather than by diseases and concentrates on common conditions

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 **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 **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 **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 **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

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 are using or where you are 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

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 Contains more than 700 high quality representative images of

light immunofluorescence and electron microscopy including new colorized electron microscopy images with correlations to clinical presentation and pathogenesis Features new animations that clearly depict the progression of membranous nephropathy membranoproliferative GN and crescentic GN Includes schematic representations of glomerular diseases which are particularly useful for illustrating difficult concepts Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices 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 **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

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 Atlas of Renal Pathology R.A. Risdon, D.R. Turner, 2012-12-06 This book is intended as a practical bench manual pathological 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 covered percutaneous needle biopsy specimens In 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 interpretation of clinical and histopathological findings is particularly important. Renal biopsy material is directly relevant to important 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 diseases. 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. Points of difficulty in interpretation and differential diagnosis are covered both in the text and in the illustrations. Great Ormond Street and Guy's Hospital.

Heptinstall's Pathology of the Kidney J. Charles Jennette, Vivette D. D'Agati, Jean L. Olson, Fred G. Silva, 2014-07-11 If you're looking to deepen your understanding of kidney disease look no further than Heptinstall's Pathology of the Kidney 7th Edition. Authored by the world's most accomplished renal pathologists, this image-rich text conveys the intricacies and comprehensiveness of renal disease, offering powerful diagnostic and treatment recommendations from decades of clinical research. Stay up to date on the cutting edge of kidney research and treatment and offer your patients the best therapeutic options and preventative measures available today.

Handbook of Renal Biopsy Pathology Alexander J. Howie, 2021-05-07 This handbook provides a short, clear, useful and interesting guide to the findings in renal biopsy specimens. Essential information needed for an understanding of renal disorders is given simply and concisely. The focus is on common conditions. The book is intended to be of practical help primarily to pathologists and trainee pathologists who look at renal biopsy specimens but also to others who have contact with anyone with renal disorders. The handbook includes more than 240 color illustrations. Other features include practical tips on the differentiation between possible diagnoses and information about eponyms.

Renal Pathology in Biopsy U. Riede, G. Thiel, J. Torhorst, 1977-12-01

Renal Pathology Edward Michael Darmady, Angus G. MacIver, 1980

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.

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