Internal structure of the Kidney

Each kidney consists of:
- Outer cortex
- Inner medulla formed of renal pyramids with apex forming renal papilla
- Cortex extends into medulla as renal columns
- Renal pelvis fills most of the sinus
- Major calyces
- Minor calyces
[eBooks] Anatomy Of Kidney And Ureter Ppt

... Anatomy of Kidneys and Ureters-Samuel Creadick 1867
The Netter Collection of Medical Illustrations - Urinary System-Christopher R. Kelly 2012 Master artist-physician, Carlos Machado, and other top medical illustrators have teamed-up with medical experts to make the classic Netter ‘green books’ a reliable effective current-day reference.
Pyelography (pyelo-ureterography)-William Frederick Braasch 1915 1999. Gift of Dr. George R. Wilkinson, Jr., from the collection of Dr. Davis.
The Ureter-H. Bergman 2012-12-06 This volume, focusing on the ureter and the diseases which involve it, is an updated second edition. Many journals and textbooks deal with the physiology, pathology, diagnosis, and therapy of derangements of the urinary tract. In most instances, however, the discussion properly centers on the disease process itself and its primary aspects, with only a tangential description of effects on the ureter. The editor is therefore correct that the ureter itself should be considered a major organ. Though it has been regarded in the recent past as a simple muscular tube, reacting to stretching or filling by contraction, this simplistic view of ureteral physiology is changing fast. With expanded knowledge of ureteral physiology, a pharmacology is developing which is becoming useful to the clinician in many ways. One of the most interesting aspects of the ureter is its role in inducing the permanent kidney, the metanephros. Relatively slight displacements in the origin of the ureteral bud result in ectopic ureteral orifices and a wide range of congenital anomalies. An ureteral bud which arises medial to the normal position at the genu of the mesonephric duct results in a lateral, and usually incompetent, ureterovesical junction after the duct is taken up to form a portion of the trigone. This appears certainly to be the developmental mechanism which results in primary reflux.
Radiological Imaging of the Kidney-Emilio Quaia 2014-08-19 This book, now in its second edition, provides a comprehensive analysis of imaging of the kidneys, upper urinary tract, and ureters, covering the normal anatomy and anatomic variants as well as all renal and urinary system pathologies. The relevant imaging modalities are first discussed, with detailed description of their applications. The entire spectrum of kidney pathologies is then presented in a series of detailed chapters with up-to-date references, high-quality images, informative schemes, and figures showing macroscopic and microscopic surgical and pathologic specimens. Chapters relating to the latest innovations in tumor ablation, vascular and nonvascular interventional procedures, and parametric and molecular imaging have been updated to reflect progress in these rapidly evolving fields. This book will be of great interest to all radiologists, oncologists, nephrologists, and urologists who are involved in the management of kidney pathologies.
Techniques of Robotic Urinary Tract Reconstruction-Michael Stifelman 2021-02-13 This book provides a complete and thorough guide to the performance of robotic urinary tract reconstruction procedures, including the principals of successful reconstructive techniques in the kidney, ureter, bladder, prostate and urethra. Reviewing patient positioning, trocar placement, instrumentation, detailed steps of procedure, and available outcome data, it outlines both common and advanced techniques, such as revision of uretero-intestinal anastomoses, buccal mucosa graft for long segment ureteral strictures, management of complex fistulas and urethral stricture. Illuminating unusual anatomy, including horseshoe kidney, retrocaval ureter, ureteral duplication, ectopic/malrotated kidneys, and retroperitoneal fibrosis, this book also highlights potential complications, their avoidance and management. Written by experts in the field, Techniques of Robotic Urinary Tract Reconstruction: A Complete Approach guides clinical practitioners in the utilization of advanced novel technology to aid intraoperation and demonstrates the ways in which robotics enables the performance of reconstructive procedures in an area difficult to reach via open techniques.
Diseases of the Urinary Tract Anatomical Chart-Anatomical Chart Company 2004-05-01 This comprehensive chart illustrates the following diseases: chronic pyelonephritis, multiple renal calculi, glomerulonephritis, acute renal failure, staghorn calculus, papillary necrosis, renovascular hypertension, renal artery stenosis, adenocarcinoma of kidney, transitional-cell carcinoma of renal pelvis, hydonephrosis, transitional-cell carcinoma of ureter, cysts in ureter, kidney stone obstructing the ureter, ureteral stricture, compression of ureter, transitional cell carcinoma of bladder, bladder stones, bladder diverticulum, neurogenic bladder, benign prostatic hypertrophy, prostatitis, adenocarcinoma of prostate, urethral stricture, urethritis, cystitis, cystica glandularis and carcinoma of urethra.
Surgical Anatomy of the Kidney-Martin I. Resnick 1982
Kidneys, Ureters, and Urinary Bladder, Depicting Anatomy and Embryology, Physiology, Pathology, Pathophysiology, and Clinical Features and Treatment of Diseases- 1975
Excretory System-Medpgnotes 2019-08-17 CONTENTS : DEVELOPMENT OF EXCRETORY SYSTEM
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General features of anatomy of excretory system

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Kidneys, Ureters, and Urinary Bladders

Robert K. Shapert 1973

Davidson’s Radiology of the Kidney and Genitourinary Tract

Alan J. Davidson 1999

This 3rd Edition presents a comprehensive, systematic approach to the radiologic diagnosis of diseases of the kidney and genitourinary tract.

Dr. Davidson and his co-authors have meticulously revised this edition to offer readers clear, concise, and useful discussions of the state-of-the-art in the field. Integrates 4 new chapters on the male and female genital system. 4 brand-new chapters on the male and female genital system. Integrates the expertise and broad clinical experience of two new co-authors. Correlates radiologic patterns and pathology to give readers a systematic approach to diagnosis. Explains the anatomy, physiology and pathophysiology of the kidney, urinary tract, adrenal gland, retroperitoneum, and more. Considers all relevant imaging modalities, from classic radiologic techniques to the most recent innovations. Details the nuances of diagnosis with more than 645 illustrations. Examines virtually every subject on the residents core curriculum adopted by the Society of Uroradiology. Presents a critical analysis of recent literature throughout.

Kidneys, Ureters, and Urinary Bladder

Frank H. Netter 1973

Surgical Diseases of the Kidney and Ureter, Vol. 1 of 2

Henry Morris 2015-06-26

Excerpt from Surgical Diseases of the Kidney and Ureter, Vol. 1 of 2: Including Injuries, Malformations and Misplacements; With Two Colored Plates and Upwards of Hundred Engravings

In this work an attempt is made to give a systematic account (1) of the regional anatomy, the malformations and misplacements, and the injuries and surgical diseases of the kidney and of the ureter; (2) of the affection of the perinephric and the peri-ureteral tissue; and (3) of the surgical treatment of these several conditions as recommended and practiced at the present time by those most occupied in this branch of surgery. Though largely based upon my personal experience, the work, without pretending to be of encyclopedic completeness, is also the outcome of long and extensive study of the writings of others. The Transactions of the various societies, and every available journal in the English and European languages which appeared during the decade following the passing for press in November, 1884, of my Manual on the "Surgical Diseases of the Kidney" were carefully searched for articles relating to renal and ureteral surgery, and abstracts were made of all that were found. Since 1894 the same plan has been pursued so far as was necessary to keep abreast with all that was being accomplished in this branch of surgery; but the labour became increasingly arduous owing to the bewildering rate of production of material, much of which, however, only corroborated settled opinions or previously established facts. When writing the Manual the difficulty lay in obtaining information owing to the scantiness of material - there was barely an indication of the path to be followed. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the
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The chapter "Homeostasis Quiz" provides quiz questions on topics: What is homeostasis, introduction to homeostasis, plant homeostasis, homeostasis in humans, homeostasis in plants, anatomy, human kidney, human urinary system, kidney disease, kidney disorders, urinary system facts, urinary system functions, urinary system of humans, urinary system structure, and urine composition. The list of books in High School Biology Series for 10th-grade students is as: - Grade 10 Biology Multiple Choice Questions and Answers (MCQs) (Book 1) - Biotechnology Quiz Questions and Answers (Book 2) - Support and Movement Quiz Questions and Answers (Book 3) - Coordination and Control Quiz Questions and Answers (Book 4) - Gaseous Exchange Quiz Questions and Answers (Book 5) - Homeostasis Quiz Questions and Answers (Book 6) - Inheritance Quiz Questions and Answers (Book 7) - Man and Environment Quiz Questions and Answers (Book 8) - Pharmacology Quiz Questions and Answers (Book 9) - Reproduction Quiz Questions and Answers (Book 10) "Homeostasis Quiz Questions and Answers" provides students a complete resource to learn Homeostasis definition, Homeostasis course terms, theoretical and conceptual problems with the answer key at end of book. Kidneys, Ureters and Urinary Bladder: Depicting Anatomy and Embryology, Physiology, Pathology, Pathophysiology, and Clinical Features and Treatment of Diseases-Frank Henry Netter 1973 Tumors of the Kidney, Renal Pelvis, and Ureter-James Lynne Bennington 1975 Kidneys, Ureters, and Urinary Bladder-Robert K. Shapter 1973 Kidneys, Ureters, and Urinary Bladder-Frank Henry Netter 1973 Kidneys, Ureters, and Urinary Bladder-1975 Homeostasis and the human kidney-Christine Langhoff 2002-06-02 Essay from the year 2001 in the subject Biology - Human Biology, grade: 70/80, Oxford University (New College), - entries in the bibliography, language: English, abstract: Homeostasis is the ability of an organism to maintain a relatively constant internal environment despite changes in and exchanges with the external environment. The importance of a stable internal environment was emphasised by the French physiologist Claude Bernard as early as 1859. By maintaining a relatively stable internal environment, complex multicellular animals are able to live freely in changing external environments. The American physiologist Walter Cannon (1871-1945) called this stable state of the internal environment homeostasis, from the Greek words homeo (same) and stasis (staying). Homeostasis is dynamic and it is the result of compensating regulatory responses performed by homestatic control systems. Elsevier's Integrated Anatomy and Embryology-Bruce Ian Bogart 2007 Each title in the new Integrated series focuses on the core knowledge in a specific basic science discipline, while linking that information to related concepts from other disciplines. Case-based questions at the end of each chapter enable you to gauge your mastery of the material, and a color-coded format allows you to quickly find the specific guidance you need. 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A Compilation of Paintings on the Kidneys, Ureters, and Urinary Bladder-Frank Henry Netter 1973 Congenital Anomalies of the Kidney and Urinary Tract-Amin J. Barakat 2016-06-17 This comprehensive, easy to read reference addresses the clinical implications of congenital anomalies of the kidney and urinary tract (CAKUT) in children. Authored by a panel of internationally recognized pediatric nephrologists and urologists,
chapters discuss clinical presentation, workup, interpretation of imaging studies, genetics, prenatal diagnosis, prevention and treatment of various anomalies to help the practitioner understand, diagnose and manage CAKUT. Tables, figures, algorithms and an extensive appendix listing conditions and syndromes associated with CAKUT are featured to assist physicians in the differential diagnosis and workup of different conditions.

Anatomy of the Kidney-Sebastian Bachmann 2011-11-15
Kidney, ureter, urinary bladder, and urethra are summarized as the excretory system or the urinary system. Based on its close developmental, anatomical and functional relations to the genital tract with its internal and external genital organs, the superior category of the genitourinary system or urogenital system has been established. The urinary system is understood as an organ system that produces, stores, and eliminates urine. Compared to other organs, the kidney characteristically reveals a complex array of interrelated morphological features and functional properties that challenges its investigator. This review focuses on the anatomy of the kidney. After a brief description of the gross anatomical features of the kidneys and their surroundings, a detailed review is presented on the functional morphology of the renal cortex, medulla, and pelvis. The renal vasculature with its gross features and specific wall architecture of the distinct arterial and venous segments is described in much detail.

Correlative functional background is presented for the vascular segments. The different types of nephrons are explained and their anatomical segments analyzed in relation with their microanatomical position in defined zones of the cortical and medullary parenchyma. Models based on glomerular morphology and the recent discovery of gene products determining its functional integrity in health and disease are discussed. The epithelia along the course of the nephron and collecting duct system are presented with coverage of ion transporters, carriers, and channels and related major signaling pathways.

A Compilation of Paintings on the Kidneys, Ureters, and Urinary Bladder Depicting Anatomy and Embryology, Physiology, Pathology, Pathophysiology, and Clinical Features and Treatment of Diseases. Prep. by Frank H. Netter- 1973
The Ciba Collection of Medical Illustrations- 1973
A Note on the Developmental Relations of the Kidney and Ureter in Human Embryos-Augustus G. Pohlman 1905
The Netter Collection of Medical Illustrations-Frank Henry Netter 1997
Manual of practical anatomy. v.2 c.2, 1919-20-Daniel John Cunningham 1920
Surgical Anatomy and Technique-Lee J. Skandalakis 2021-04-12
This book continues the tradition of providing a concise, accessible, and generously illustrated refresher for both novice and experienced clinicians. It contains thoroughly revised chapters and dozens of new richly colored illustrations, which make it much easier to follow the technique and better appreciate the anatomy. This fifth edition now includes robotic techniques for each relevant chapter. All the existing chapters have been updated to reflect current surgical approaches and instrumentation as well as a section on anatomical complications. Three new chapters on sports hernia, ablative techniques for venous disease, and on the kidney and ureter have also been added to help surgeons learn more about these structures. The fifth edition of Surgical Anatomy and Technique: A Pocket Manual provides the gold standard in correlating clear, practical anatomy with the correct technique in the pursuit of the best possible patient outcomes and remains a "must have" for every resident and general surgeon.
Ureters-Richard A. Santucci 2014-05-14
This book is a cumulative work that covers ureteral anatomy, physiology, and disorders. It aims to highlight the ureters by bringing together national and international experts in their respective fields to discuss ureteral pathology and management of ureteral disease. Chapters discussing ureteral trauma, injury, obstruction, stones, cancers, surgeries, and tissue engineering will enhance patient care and introduce us to the future of ureteral surgery. At the very least, this book will improve overall medical knowledge on these often ignored but vital urinary structures.

Human oncology- 1988
The Ciba Collection of Medical Illustrations: Kidneys, ureters, and urinary bladder-Frank Henry Netter 1973
Tumors of the kidney, renal pelvis, and ureter-Universities Associated for Research and Education in Pathology 1967
Numerical Investigations of Unobstructed and Obstructed Human Ureter Peristalsis-Ahmed Tasnub Takaddus 2017
Urine transported through the ureter from the kidney to the urinary bladder by peristaltic mechanism. Some of the problems related to urine transportation in ureter is back-flow, severe pain or in some rare cases, rupture of the ureter wall in an obstructed ureter. Ureter flow can get obstructed due to mineral deposits, from highly concentrated urine in the kidney and these deposits also known as kidney stones can then travel through the urinary tract. A number of numerical analyses have been conducted on the ureter to understand the flow mechanics as well as to understand the wall properties. But very few studies exist focusing on an obstructed ureter. To fully understand the effect of obstruction in a ureter, a comparative study of obstructed
and unobstructed human ureter is required. So in this paper, the first 2D axisymmetric study has been carried out on a human ureter, where the ureteral wall has been modelled as an isotropic hyper-elastic material, based on curve fit-data from previous literature. The peristalsis waves are created using contractile forces on the ureter wall. In addition, 2D axisymmetric studies have been conducted on both obstructed and unobstructed ureters, where the constitutive material for the ureter is assumed to be anisotropic hyperelastic based on a previous experiments on real human ureters. Here, urine is transported by the isolated bolus created by the expansive force acting on the outer surface of the ureter wall. Finally, a 3D comparative study has been done on ureter with 50%, 70% obstruction and no obstruction. The material properties and wall mechanics for peristalsis are consistent with the previous cases. In all of these studies, both the fluid and structural domains are solved using a finite-element based fluid-structure interaction (FSI) approach between ureter wall and urine. The coupling between the domains is two-way, so both fluid and structure influence each other. While all the 2D simulations are solved in fully coupled monolithic way, for the 3D cases, a segregated approach is used with different nonlinear solvers for fluid and structure. For all the simulations, the fluid domain is considered to be incompressible laminar flow. From the analysis of the results, it is observed that peristalsis flow has a slight tendency of generating backflow from the bladder to the outlet even without any obstruction. So failure of the one-way valve like junctions, for instance the junction between bladder and ureter, can cause urine reflux. As the size of the obstruction increases, amount of urine backflow also increases. Also, high peaks are observed in pressure gradient and wall shear stress values near the location of the obstruction, which may lead to severe pain and even in some rare cases rupture of the ureter wall. The main objective of this study is to quantify the effect of ureteral obstruction, which will help physicians to understand and assist in the treatment procedure of an obstructed ureter.

The Netter Collection of Medical Illustrations - Urinary System e-Book-Christopher R Kelly 2012-03-29 The Urinary System, 2nd Edition provides a concise and highly visual approach to the basic sciences and clinical pathology of the kidney, bladder, and ureters. This volume in The Netter Collection of Medical Illustrations (the CIBA “Green Books”) has been expanded and revised by Drs. Christopher Rehbeck Kelly and Jaime Landman to capture current clinical perspectives in nephrology and urology - from normal anatomy, histology, physiology, and development to glomerular and tubular diseases, infections, urological surgeries, and cancers. It also features hundreds of radiologic and pathologic images to supplement the classic Netter illustrations, as well as new illustrations created Get complete, integrated visual guidance on the kidney, ureters, and bladder in a single source, from basic sciences and normal anatomy and function through pathologic conditions. Adeptly navigate current controversies and timely topics in clinical medicine with guidance from expert editors, authors, and the input of an international advisory board. Gain a rich, comprehensive clinical view of the urinary system by seeing classic Netter anatomic illustrations side by side with cutting-edge radiologic images, pathology slides, and the latest molecular biology findings. Visualize the timely topics in nephrology and urology, including HIV-associated nephropathy, hepatorenal syndrome, laparoscopic and robotic surgeries, and tumor cryoblation. See current clinical concepts captured in the visually rich Netter artistic tradition via contributions from Carlos Machado, MD, and other artists working in the Netter style.

Urolithiasis-Michael E. Moran 2013-10-30 Urolithiasis: A Comprehensive History provides a historical sojourn into the varied manifestations of kidney stone disease. Utilizing historical sources and integrating classic material with new concepts, this new volume provides depth and details on stone disease not found in modern overviews on the topic. This volume serves as a very useful tool for physicians and researchers dealing with kidney stone disease. Written by a renowned expert in the field, Urolithiasis: A Comprehensive History is an in depth resource that heightens our medical understanding of this ancient disease and is of great value to urologists, nephrologists, endocrinologists interested in stone disease.

Behaviour of the Human Ureter in Health and Disease-James Alexander Ross 1972

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