

## Lecture notes

## URINARY SYSTEM

two retroperitoneal organs:

- kidneys - where functional units (nephron) are located
- formation of urine

## - excretory passages

(renal pelvis, ureter, urinary bladder, urethra)

- for temporary storage and periodic evacuation

functions:

- water and electrolyte homeostasis
- excretion of many toxic metabolic waste products (nitrogenous compounds  $\rightarrow$  urea and creatinine)
- osmoregulation
- production of renin (regulation of blood pressure) and erythropoietin (stimulates RBC synthesis)

## KIDNEYS

- bean-shaped paired organs situated retroperitoneally
- hilus  $\rightarrow$  concavity found in the medial border w/c serves as a point of entrance for the renal artery and exit for the renal vein and ureter
- gland is classified morphologically as **compound tubular**
- parenchyma: compact mass of uriniferous tubules
- stroma  $\rightarrow$  scanty fibroreticular CT

## - Renal Cortex (peripheral portion)

- darker reddish brown cortex
- numerous radiating dark lines from the outer boundary to the capsule leaving a narrow zone  $\rightarrow$  cortex cortices

Pars Radiata / Cortical Rays / Medullary Rays of Henle

- straight portions of the uriniferous tubules
- continuous with the striate medulla

Pars Convoluta / Cortical Labyrinth

- intervening portions between the pars radiata

Renal Corpuscle / Malpighian Corpuscle

- convoluted portions of the uriniferous tubules

Renal Columns of Bertin / Cortical Septae

- narrow strips of cortical tissue deep down between the bases of the renal pyramids
- inward extension of the darker cortical tissue which defines the lateral boundaries of each pyramid

## - Renal Medulla (inner portion)

- lighter or pale staining medulla
- made up of 8-18 conical subdivisions  $\rightarrow$  renal pyramids
- no renal corpuscles
- contains only the straight portions of the uriniferous tubules together with the loops of Henle

## Boundary Zone

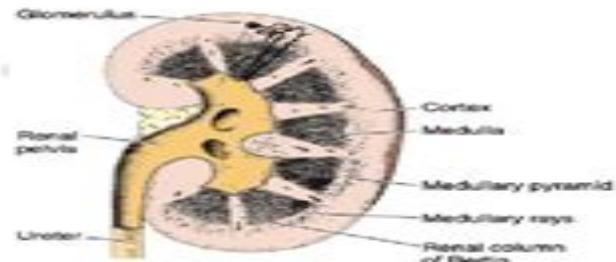
- a very vascular outer zone which joins the cortex

## Papillary Zone

- inner zone, composed of the apices of the renal pyramids

## Renal Lobe

- renal pyramid with cortical tissue
- smaller functional unit comprising a cortical ray and adjacent tissues



cortex	medulla
presence of renal corpuscles	absence of renal corpuscles
prominent alterations of pars radiata and convoluta	no alterations, straight parts only
acidophilic and brighter which contains more of the secretory portions	lighter in staining; contains the excretory tubules

## - Uriniferous Tubules

- structural and functional unit of the kidneys
- principal portions:

## - nephron

- tubular unit of the kidney
- corresponds to the secretory elements
- each segment is lined with specific type of epithelium specialized for a particular role in the formation of urine

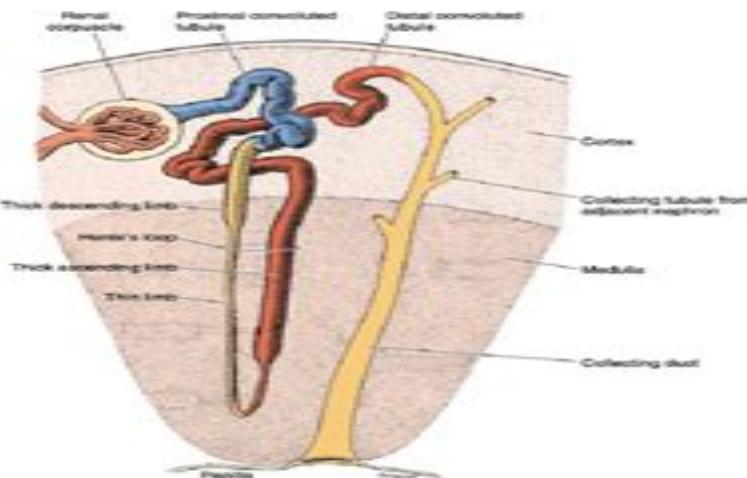
- i renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
- ii proximal convoluted tubule
- iii loop of Henle
- iv distal convoluted tubule

## collecting tubules / excretory portion

- ducts that conveys the urine to the renal pelvis carries out hypertonic urine

- i arched collecting tubule
- ii straight collecting tubule
- iii papillary duct of Bellini

secretory portion	excretory portion
staining	acidophilic granular
nucleus	pale staining
lumen	small, irregular
cell boundaries	indistinct
	distinct



# Urinary Study Guide

**David M. Cline, O. John Ma, Rita K.  
Cydulka, Garth D. Meckler, Stephen H.  
Thomas, Dan Handel**

## Urinary Study Guide:

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suitable for students enrolled in Human Anatomy and Physiology I or II or General Anatomy and Physiology **Urology** S. P. Pasiechnikov,O. D. Nikitin,R. A. Lytvynenko,I. M. Klymenko,I. L. Tarnavskyi,Y. V. Boukhalov, This educational methodical textbook comprises the theoretical and practical basis of general and special urology modern data concerned diagnostics and treatment The attention is paid to the description of male genitourinary system abnormalities the principles of diagnosis and treatment of inflammatory diseases urinary stone disease bladder outlet obstruction and neurogenic lower urinary tract dysfunction The textbook also covers information about acute and chronic renal insufficiency and their treatment problems of kidneys transplantation There are chapters dedicated to diagnosis and treatment of injuries and tumors of organs of male genitourinary system The educational methodical textbook is designed for English speaking students of higher medical institutions of IVth accreditation level

**Atlas of Human Anatomy E-Book** Frank H. Netter,2017-12-19 The only anatomy atlas illustrated by physicians Atlas of Human Anatomy 7th edition brings you world renowned exquisitely clear views of the human body with a clinical perspective In addition to the famous work of Dr Frank Netter you'll also find nearly 100 paintings by Dr Carlos A G Machado one of today's foremost medical illustrators Together these two uniquely talented physician artists highlight the most clinically relevant views of the human body In addition more than 50 carefully selected radiologic images help bridge illustrated anatomy to living anatomy as seen in everyday practice Region by region coverage including Muscle Table appendices at the end of each section Large clear illustrations with comprehensive labels not only of major structures but also of those with important relationships Updates to the 7th Edition based on requests from students and practitioners alike New Systems Overview section featuring brand new full body views of surface anatomy vessels nerves and lymphatics More than 25 new illustrations by Dr Machado including the clinically important fascial columns of the neck deep veins of the leg hip bursae and vasculature of the prostate and difficult to visualize areas like the infratemporal fossa New Clinical Tables at the end of each regional section that focus on structures with high clinical significance These tables provide quick summaries organized by body system and indicate where to best view key structures in the illustrated plates More than 50 new radiologic images some completely new views and others using newer imaging tools have been included based on their ability to assist readers in grasping key elements of gross anatomy Updated terminology based on the international anatomic standard Terminologia Anatomica with common clinical eponyms included Student Consult access includes a pincode to unlock the complete enhanced eBook of the Atlas through Student Consult Every plate in the Atlas and over 100 Bonus Plates including illustrations from previous editions are enhanced with an interactive label quiz option and supplemented with Plate Pearls that provide quick key points and supplemental tools for learning reviewing and assessing your knowledge of the major themes of each plate Tools include 300 multiple choice questions videos 3D models and links to related plates

**One Student Nurse to Another Study Guide Urinary System** Carol Gibb,2013-12-03 One Nursing Student to Another is a series of detailed notes key points and keywords for all steps in nursing This unique study guide and

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will ensure its place on my bookshelf for years to come JAMA Teacher's Wraparound Edition: *Twe Biology Everyday Experience* Albert Kaskel,1994-04-19 **Tintinalli's Emergency Medicine Manual 7/E** David M. Cline,O. John Ma,Rita K. Cydulka,Garth D. Meckler,Stephen H. Thomas,Dan Handel,2012-05-06 The full spectrum of emergency medicine at your fingertips and small enough to fit in a pocket NOW IN FULL COLOR Written by clinicians engaged in the day to day practice of emergency medicine this handy manual is derived from Tintinalli's Emergency Medicine 7e the field's most trusted text Composed of brief chapters focusing on clinical features diagnosis and differential and emergency management and disposition Tintinalli's Emergency Medicine Manual is designed to help you provide skillful and timely patient care Packing a remarkable amount of information in a compact presentation this expanded and revised edition is enhanced by A full color design with an increased number of photos and line drawings Numerous tables making information easy to access Completely revised and reorganized content to match current practice Expanded pediatrics section and new chapters on Low Probability ACS Thromboembolism Occlusive Arterial Disease Nausea and Vomiting Bowel Obstruction and Volvulus Acute Urinary Retention Renal Emergencies in Children Food and Water Borne Illnesses and Hip and Knee Pain With its unmatched authority and easy to use organization Tintinalli's Emergency Medicine Manual belongs in the pocket of every clinician working in an acute care setting **Tintinalli's Emergency Medicine Manual, Eighth Edition** Rita K. Cydulka,David M. Cline,O. John Ma,Michael T. Fitch,Scott A. Joing,Vincent J. Wang,2017-09-08 The book that belongs in the pocket of every clinician working in an acute care setting A Doody's Core Title for 2019 This portable manual encapsulates the most clinically relevant content of Tintinalli's Emergency Medicine Eighth Edition the world's bestselling text on the topic and puts it at your fingertips or in your pocket or backpack Covering the full spectrum of emergency medicine in all patient populations adult and pediatric this full color guide is composed of concise chapters that focus on clinical features diagnosis and differential and emergency management and disposition Packing a remarkable amount of information in a compact full color presentation Tintinalli's Emergency Medicine Manual Eighth Edition is enhanced by contributors from across the globe Numerous tables and full color photographs and illustrations enrich the text and help you deliver skillful and timely patient care This new edition includes extensive updates to all sections incorporating the latest guidelines evidence based protocols and relevant research **Drug Therapy in Nursing** Diane S. Aschenbrenner,Samantha J. Venable,2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient's response to therapy This thoroughly updated Third Edition covers newly approved drugs has separate chapters on drugs affecting fungal and viral infections and includes more pathophysiology information FDA Black Box warnings have been added to the discussion of each prototype when applicable and safety alerts have been added to emphasize prevention of common medication errors A companion Website offers

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web address route 381 south status national historic landmark open to the public with tours available website fallingwater.org they met wright in 1934 when their son edgar jr spent six months in the taliesin fellowship

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web fallingwater is a house designed by the architect frank lloyd wright in 1935 in the laurel highlands of southwest pennsylvania about 70 miles 110 km southeast of pittsburgh in the united states 4 it is built partly over a waterfall on bear run in the mill run section of stewart township fayette county pennsylvania

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of wright s mature years updated with valuable new material from the recently opened

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that surrounds it including of course its iconic waterfall

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