

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 → urea and creatinine)
- osmoregulation
- production of renin (regulation of blood pressure) and erythropoietin (stimulates RBC synthesis)

KIDNEYS

- bean-shaped paired organs situated retroperitoneally
- **hilus** → 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** → 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 → **cortex cortices**
- **Pars Radiata / Cortical Rays / Medullary Rays of Ferrein**
 - 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 tissues 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 paler staining medulla
 - made up of 8-15 conical subdivisions → **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

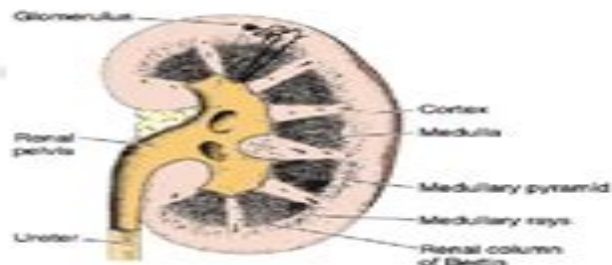
Papillary Zone

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

Renal Lobe

Renal Lobule

- 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**

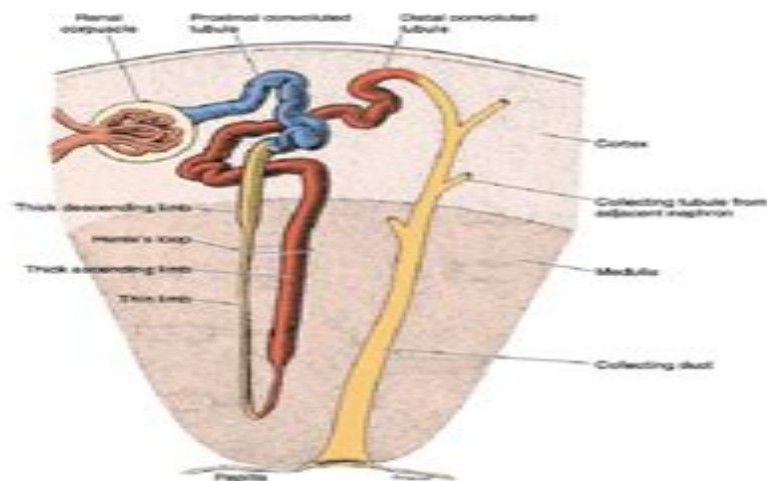
- tubular unit of the kidney
 - corresponds to the secretory elements
 - each segment is lined with specific type of epithelium specialized for a particular role in the formation of urine
- renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
 - proximal convoluted tubule
 - loop of Henle
 - distal convoluted tubule

- **collecting tubules / excretory portion**

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

- arched collecting tubule
- straight collecting tubule
- papillary duct of Bellini

| | secretory portion | excretory portion |
|-----------------|----------------------|-------------------------|
| staining | acidophilic granular | basophilic non granular |
| nucleus | pale staining | dark staining |
| lumen | small, irregular | round and clear |
| cell boundaries | indistinct | distinct |



Urinary Study Guide

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Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2002 This is the first comprehensive study guide covering all aspects of Critical Care Medicine The condensed format of coverage is unique it supplies a heavily illustrated text with self assessment questions and answers This approach will help the reader to determine the correct answer The text is supported by case studies tables and illustrations which will describe important procedures Also the selected readings and references will focus on the field s leading major references so this book will be the ideal complement to previously published literature This is useful for physicians and those in training who see patients in the ICU

Study Guide for Medical-surgical Nursing Patricia Graber O' Brien, 2007

Brunner & Suddarth's Textbook of Medical-surgical Nursing Suzanne C. O'Connell Smeltzer, Brenda G. Bare, Janice L. Hinkle, Kerry H. Cheever, 2010 Preparing students for successful NCLEX results and strong futures as nurses in today s world Now in its 12th edition Brunner and Suddarth s Textbook of Medical Surgical Nursing is designed to assist nurses in preparing for their roles and responsibilities in the medical surgical setting and for success on the NCLEX In the latest edition the resource suite is complete with a robust set of premium and included ancillaries such as simulation support adaptive testing and a variety of digital resources helping prepare today s students for success This leading textbook focuses on physiological pathophysiological and psychosocial concepts as they relate to nursing care Brunner is known for its strong Nursing Process focus and its readability This edition retains these strengths and incorporates enhanced visual appeal and better portability for students Online Tutoring powered by Smarthinking Free online tutoring powered by Smarthinking gives students access to expert nursing and allied health science educators whose mission like yours is to achieve success Students can access live tutoring support critiques of written work and other valuable tools

Tintinalli's Emergency Medicine: A Comprehensive Study Guide, Seventh Edition Judith Tintinalli, J. Stapczynski, O. John Ma, David Cline, Rita Cydulka, Garth Meckler, 2010-11-12 The landmark emergency medicine text is now in full color 17 additional chapters available for download With 418 contributors representing over 120 medical centers around the world Tintinalli s Emergency Medicine is the most practical and clinically rigorous reference of its kind It covers everything from prehospital care disaster preparedness and basic resuscitative techniques to all the major diseases requiring emergency treatment such as pulmonary emergencies renal and GU disorders

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Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

Study Guide for Human Anatomy and Physiology Evelyn Biluk, 2012-06-28 This is a collection of multiple choice questions on the urinary system female reproductive system and male reproductive system Topics covered include an overview of the urinary system anatomy glomerular filtration tubular reabsorption tubular secretion production of dilute and concentrated urine kidney function evaluation urine transport urine storage urine elimination female anatomy female reproductive cycle birth control methods an overview of the male reproductive system spermatogenesis male reproductive tract semen external genitalia and hormones These questions are

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. Tarnavskiy, 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 will 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

review is filled with important guidelines and information to supplement and improve your skills and knowledge within the Urinary System for LPN and RN students **Quick Physiology Review: Human Urinary System** E Staff, Learn and review on the go Use Quick Review Anatomy Physiology Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all health sciences premed medical and nursing students *Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 9th edition* Judith E. Tintinalli, O. John Ma, Donald Yealy, Garth D. Meckler, J. Stephan Stapczynski, David M. Cline, Stephen H. Thomas, 2019-10-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The long awaited new edition of the world's most widely used and highly regarded textbook and reference of emergency medicine A Doody's Core Title for 2019 Tintinalli's Emergency Medicine is THE essential resource for everyone working in and teaching emergency medicine The Ninth Edition provides the depth and breadth of coverage that reflects the complexity and expertise needed to practice emergency medicine in today's fast paced environments This comprehensive text is an important clinical resource for physicians residents and students advance practice providers emergency nurses EMTs and paramedics It is a necessary resource for in training and board examinations and recertification Tintinalli's Emergency Medicine covers everything from prehospital care disaster preparedness and basic and advanced resuscitative techniques to all the significant medical traumatic and environmental conditions requiring emergency treatment in adults children and neonates Highlights of the Ninth Edition Full color design with more tables than ever to succinctly present key information Extensive updates to all sections incorporating the latest clinical and evidence based information Online access to over 100 videos covering a wide range of diagnostic and therapeutic procedures and POCUS for obstetric gynecologic pediatric musculoskeletal and vascular conditions World class pediatric section on the care of neonates infants and children Expanded chapters on the management of gynecologic and obstetric conditions and emergencies Updated information on toxicologic and environmental emergencies Contemporary concise discussion of ED identification and treatment of opioid use disorders Updated information on procedural sedation Expert advice on the management and care of transgender patients Latest information available on neurologic and cardiac emergencies From the reviews of the seventh edition Collectively they have once again produced an excellent text that manages to cover the broad scope of emergency medicine while remaining an easily readable and practical resource Last for the inevitable comparison of this current edition of Tintinalli's Emergency Medicine with other available emergency medicine textbooks available in my opinion Tintinalli's still comes out on top It is more concise and easier to read than some yet it covers the breadth of emergency medicine practice more comprehensively than others Just as previous editions did the seventh presents all of the most pertinent and up to date information in a well organized format that is comprehensive yet easy to read That and many of the attractive new features in this current edition

will ensure its place on my bookshelf for years to come JAMA Teacher's Wraparound Edition: Two 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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