

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 → uree 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

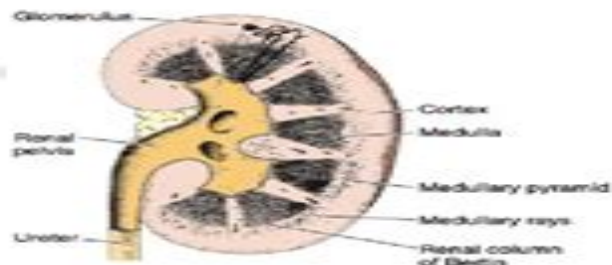
Papillary Zone

- 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

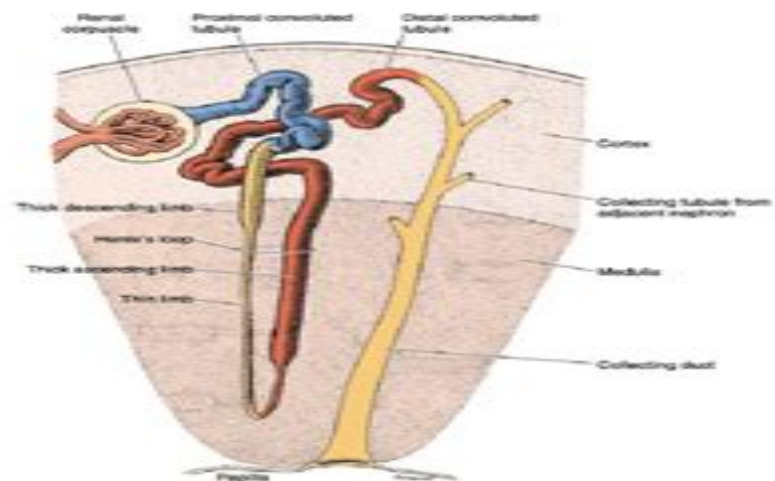
- i renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
- ii proximal convoluted tubule
- iii loop of Henle
- iv distal convoluted tubule

- collecting tubules / excretory portion

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

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

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

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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 and hemophilia This authoritative in depth coverage makes this classic text indispensable not only in emergency departments but also for residents and practitioners when studying or preparing for any exam they may face While continuing to provide the most current information for acute conditions the seventh edition of Tintinalli's Emergency Medicine has been substantially revised and updated to cover all of the conditions for which patients seek emergency department care in a concise and easy to read manner NEW Features Full color design with more figures and tables than ever Reader friendly chapter presentation makes it easy to find important material Updated tables covering drugs and important clinical information Patient safety considerations and injury prevention are integrated into chapters as appropriate Total revision of the dermatology section enables diagnosis by lesion description and body area affected and provides current treatment Organ systems sections reorganized to reflect considerations for actual clinical practice New chapters New adult chapters include Natural Disasters Aneurysms of the Aorta and Major Arteries Hip and Knee Pain Aortic Dissection Acute Urinary Retention Subarachnoid Hemorrhage and Intracranial Bleeding Clotting Disorders Community acquired Pneumonia and Noninfectious Pulmonary Infiltrates Type I Diabetes Type II Diabetes Anemia Tests of Hemostasis Clotting Disorders Head Injury in Adults and Children the Transplant Patient Grief Death and Dying and Legal Issues in Emergency Medicine Twelve new pediatric chapters including The Diabetic Child Hematologic Oncologic Emergencies Ear and Mastoids Eye Problems in Infants and Children Neck Masses GI Bleeding Nose and Sinuses Urologic and Gynecologic Procedures in children Renal emergencies in children Behavioral and Psychiatric Disorders in children Pediatric Procedures Pediatric ECG Interpretation Greater coverage of procedures throughout for the most common conditions seen in the emergency department Available content for download includes an additional 17 chapters such as Hyperbaric Oxygen Therapy Principles of Imaging Prison Medicine Military Medicine The Violent Patient Forensics Wound Ballistics and Drug Interactions Free downloads also feature videos and animations for teaching and learning performance of important procedures especially Ultrasound Guided Procedures

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

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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 *Medical Review*, 1914

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

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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 student and instructor ancillaries including NCLEX style questions pathophysiology animations medication administration videos and dosage calculation quizzes

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