

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

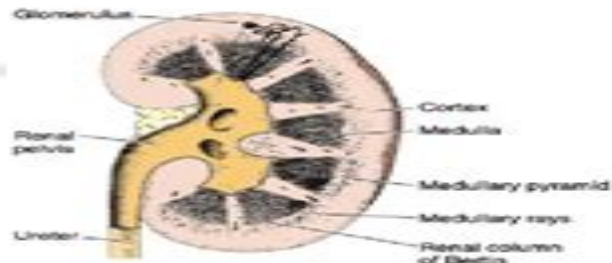
Papillary Zone

- 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**

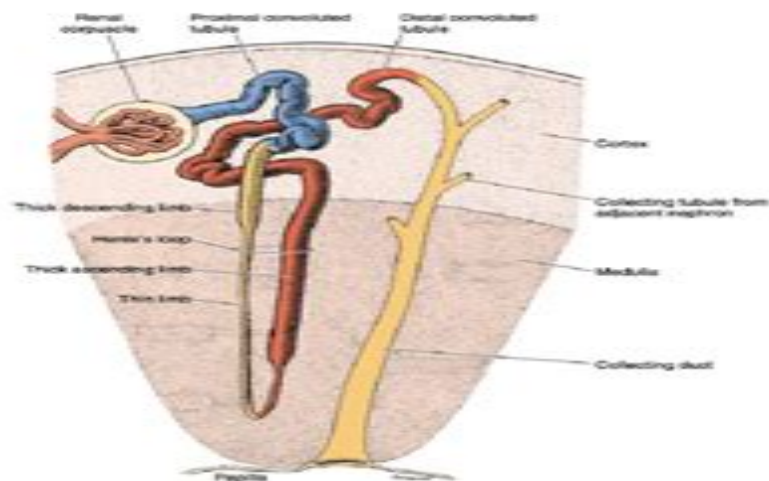
- tubular unit of the kidney
 - corresponds to the secretory elements
 - each segment is lined with specific type of epithelium specialized for a particular role in the formation of urine
- renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
 - proximal convoluted tubule
 - loop of Henle
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

**Sue E. Huether, Kathryn L.
McCance, Clayton F. Parkinson**



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

Clinical Neuropsychology Study Guide and Board Review Kirk J. Stucky,Michael W. Kirkwood,Jacobus Donders,2014 The Clinical Neuropsychology Study Guide and Board Review provides an easy to study volume with sample questions and recommended readings that are specifically designed to help individuals prepare for the ABCN written examination In addition this book can also be used as a teaching tool for graduate students and trainees at various levels The book is divided into three sections Section 1 Foundations of Clinical Neuropsychology Section II Fundamentals of Assessment and Section III Disorders and Conditions The format is geared toward exam preparation and is much less dense than a typical textbook Materials are provided in a concise outlined manner with liberal use of bullets boxes and illustrations tables that allow readers to easily review and integrate information into their already established knowledge base To augment the study guide a recommended readings list at the end of each chapter provides references to more comprehensive materials considered important or seminal in each topic area

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Table of Contents Urinary Study Guide

1. Understanding the eBook Urinary Study Guide
 - The Rise of Digital Reading Urinary Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Urinary Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Urinary Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Urinary Study Guide
 - Personalized Recommendations
 - Urinary Study Guide User Reviews and Ratings
 - Urinary Study Guide and Bestseller Lists

5. Accessing Urinary Study Guide Free and Paid eBooks
 - Urinary Study Guide Public Domain eBooks
 - Urinary Study Guide eBook Subscription Services
 - Urinary Study Guide Budget-Friendly Options
6. Navigating Urinary Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Urinary Study Guide Compatibility with Devices
 - Urinary Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Urinary Study Guide
 - Highlighting and Note-Taking Urinary Study Guide
 - Interactive Elements Urinary Study Guide
8. Staying Engaged with Urinary Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Urinary Study Guide
9. Balancing eBooks and Physical Books Urinary Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Urinary Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Urinary Study Guide
 - Setting Reading Goals Urinary Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Urinary Study Guide
 - Fact-Checking eBook Content of Urinary Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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