

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

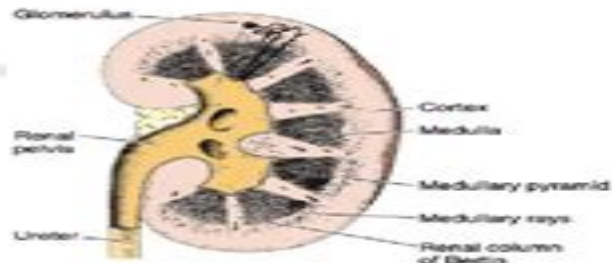
Papillary Zone

- 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

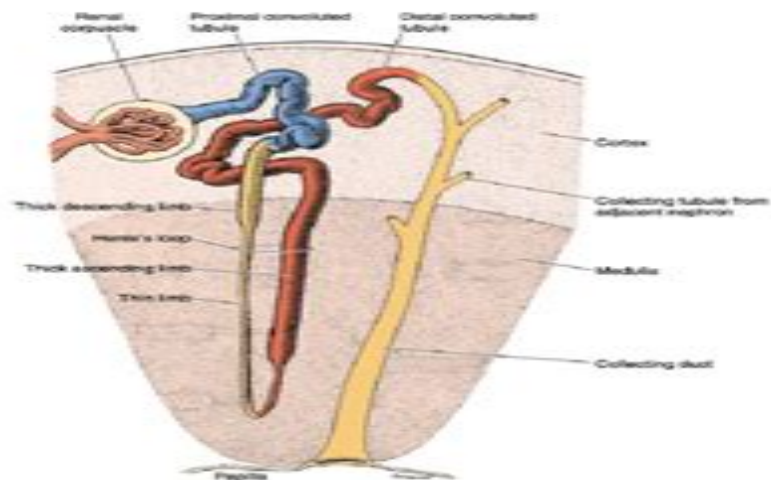
- i renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
- ii proximal convoluted tubule
- iii loop of Henle
- iv distal convoluted tubule

- **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 |



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Table of Contents Renal System Study Guide

1. Understanding the eBook Renal System Study Guide
 - The Rise of Digital Reading Renal System Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Renal System 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 Renal System Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Renal System Study Guide
 - Personalized Recommendations
 - Renal System Study Guide User Reviews and Ratings
 - Renal System Study Guide and Bestseller Lists
5. Accessing Renal System Study Guide Free and Paid eBooks

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