

## 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

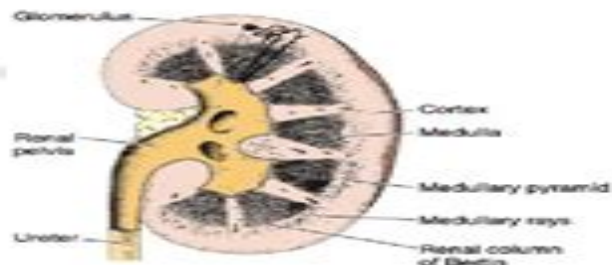
## Papillary Zone

- 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**

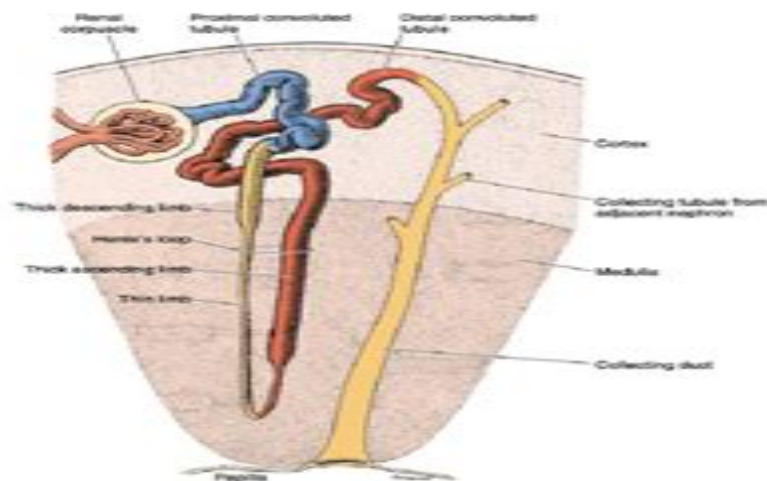
- tubular unit of the kidney
  - corresponds to the secretory elements
  - each segment is lined with specific type of epithelium specialized for a particular role in the formation of urine
- renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
  - proximal convoluted tubule
  - loop of Henle
  - 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 System Study Guide Ch 16

**Kathy Bonewit-West**



## Urinary System Study Guide Ch 16:

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**Study Guide for Understanding Anatomy & Physiology** Gale Sloan Thompson, 2024-10-15 Here s the ideal companion to Understanding Anatomy Physiology A Visual Interactive Approach 3rd Edition or as a stand alone guide to reinforce A P concepts

**The Art of Examining and Interpreting Histologic Preparations** William J. Krause, 2004-05 The examination and interpretation of tissue sections seen under the light microscope in a laboratory setting is an example of student directed independent problem solving The proper reading of a histologic section is an acquired art that can only be developed through practice close observation and repetition This laboratory manual was designed as a guide for students to aid them in this endeavor The laboratory study guide manual was designed to be used as a supplement to any current textbook and or atlas of Histology Learning objectives provide the overall goals for each chapter The narrative of the study guide explains how to systematically breakdown examine and interpret each tissue and or organ encountered without regard to a given histologic slide from a specific slide collection Thus this systematic method can be used to examine and interpret histologic preparations from any collection or of any species The student is encouraged to sketch label and create a personalized atlas while using this laboratory manual as a guide The vocabulary that should be developed and used during the laboratory can be found quickly by going to the bold face type in the appropriate segment of the text Each chapter

contains one or more tables in which key structures used in the identification of a tissue organ are presented offering the briefest possible summary of important histologic features As a final short review an appendix provides summary tables that compare and contrasts the basic differences of several structures that are somewhat similar in general architecture

**Human Form, Human Function** Kerry L. Hull,2011 Designed to accompany Human Form Human Function this student workbook offers chapter overviews chapter objectives focus questions mastery tests study activities and mastery test answers

**Veterinary Medical Terminology Guide and Workbook** Angela Taibo,2019-02-11 Designed to be both comprehensive and user friendly the text offers easy to understand explanations of medical terminology and contains helpful learning features such as tips case studies and review questions Describes medical terms with easy to understand explanations and phonetic spellings Offers an updated edition of this practical guide to veterinary medical terminology Contains real world case studies word lists and review questions that are designed to promote active learning Includes new chapters on medical reports and case studies and large animals as well as helpful memorization features Provides access to a companion website with images audio clips flash cards and other helpful learning tools

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