

## 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  $\rightarrow$  uree and creatinine)
- osmoregulation
- production of renin (regulation of blood pressure) and erythropoietin (stimulates RBC synthesis)

## KIDNEYS

- bean-shaped paired organs situated retroperitoneally
- **hilus**  $\rightarrow$  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  $\rightarrow$  compact mass of uriniferous tubules
- stroma  $\rightarrow$  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  $\rightarrow$  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  $\rightarrow$  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

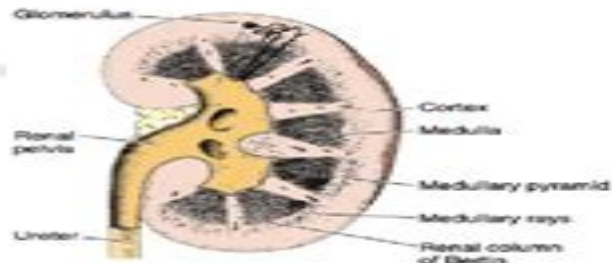
## Papillary Zone

- 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

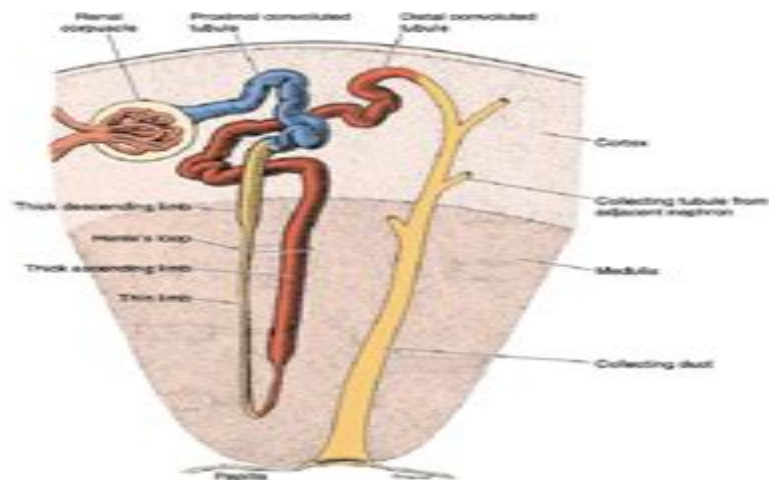
- tubular unit of the kidney
  - corresponds to the secretory elements
  - each segment is lined with specific type of epithelium specialized for a particular role in the formation of urine
- renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
  - proximal convoluted tubule
  - loop of Henle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

**Rachel S Tattersall**



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