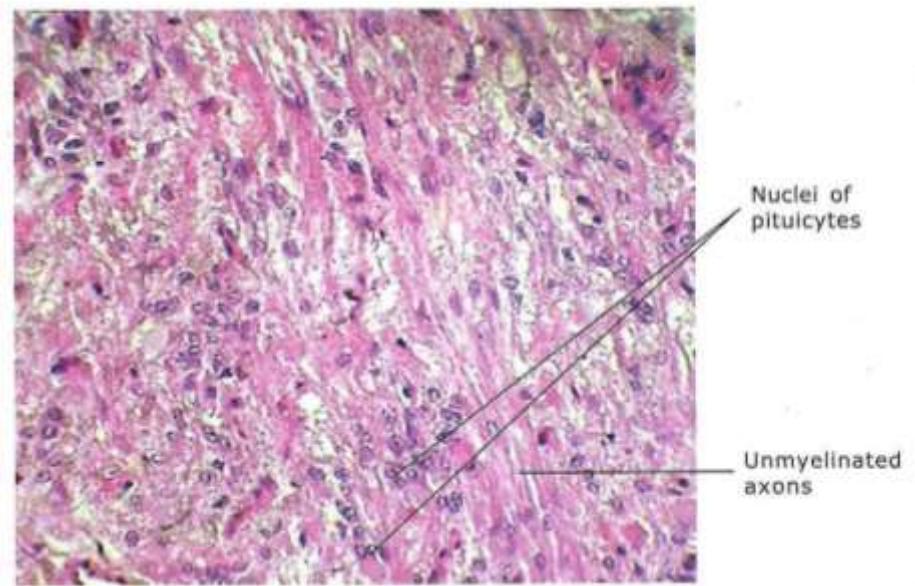
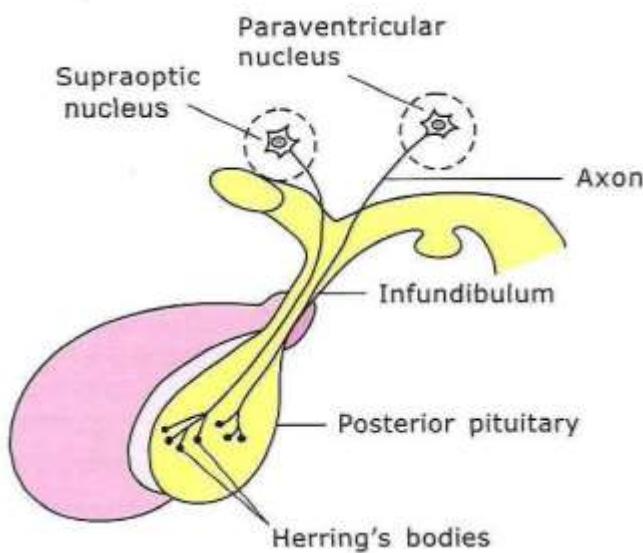


Histology of the Endocrine Glands

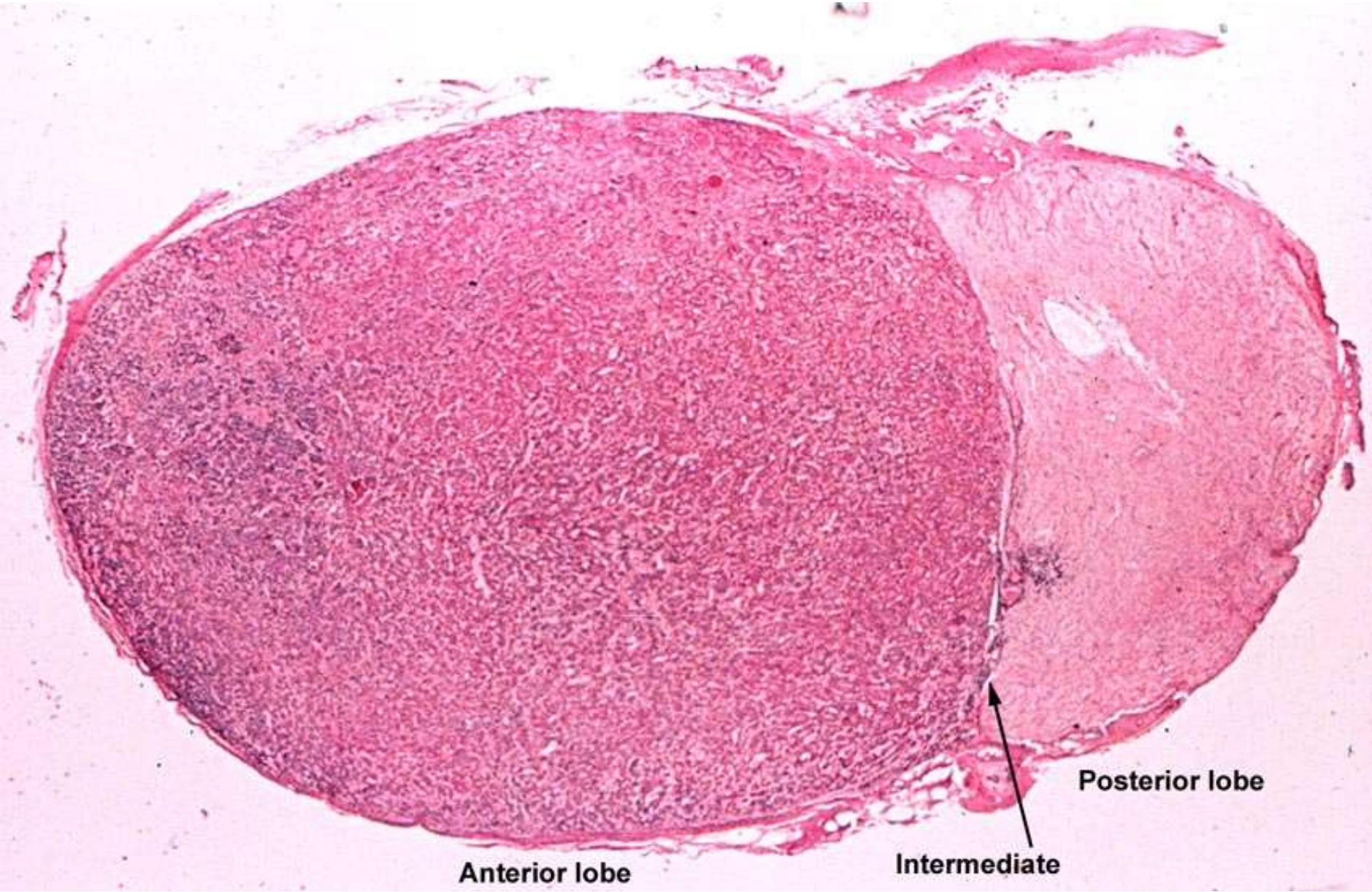
LAB 2022

Dr AMAL ALBTOOSH

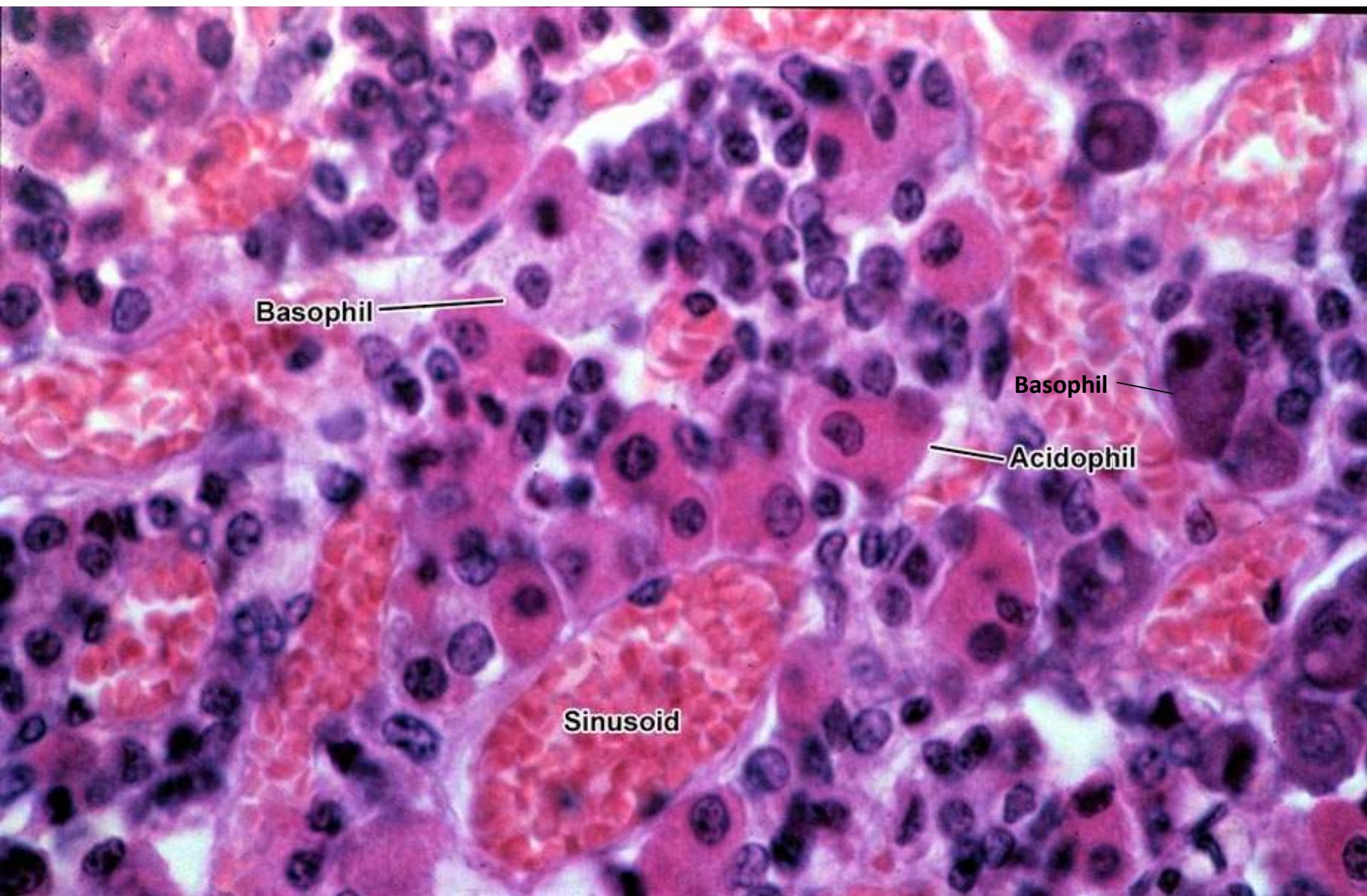
Posterior Pituitary



Pituitary gland

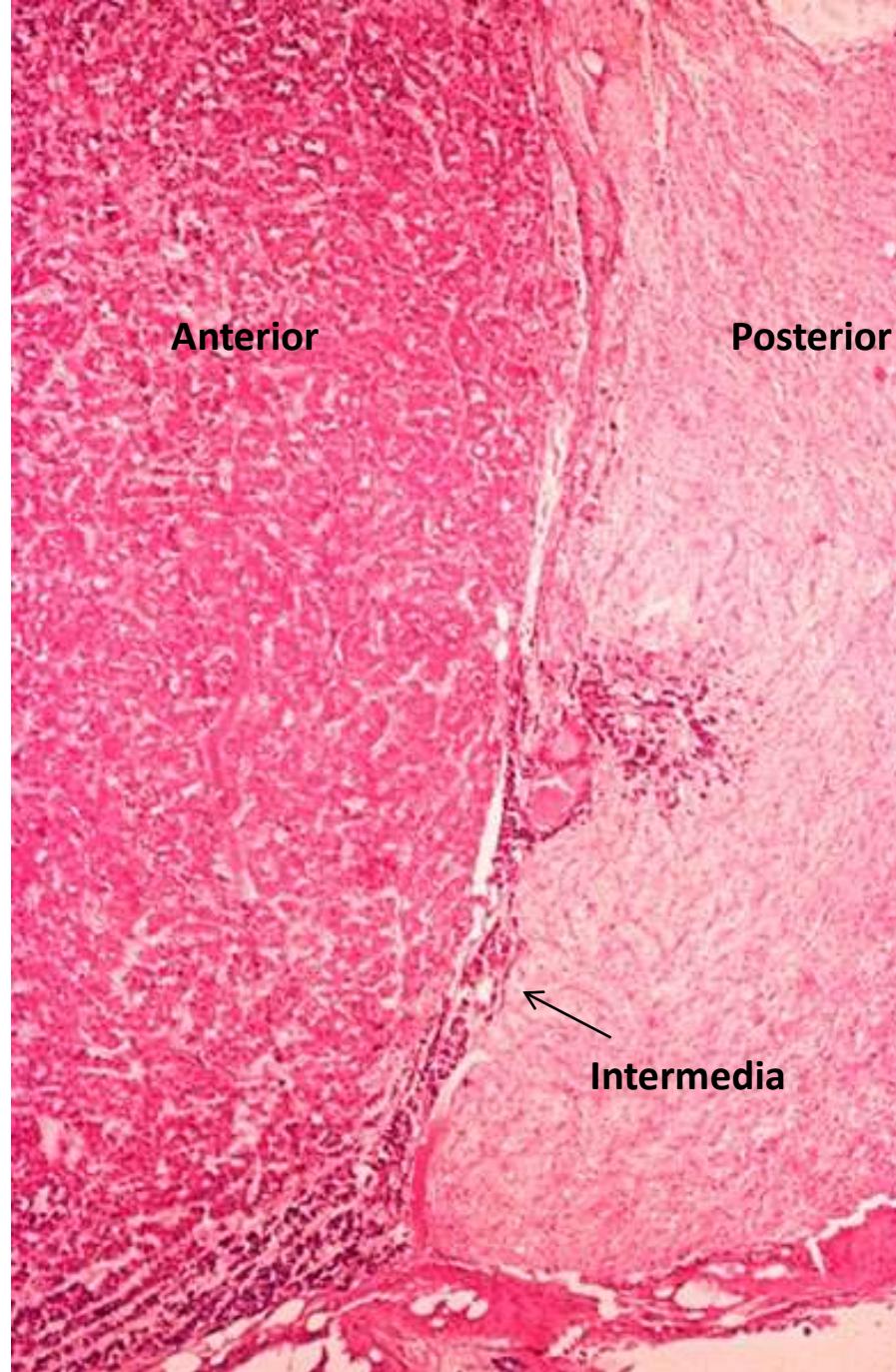


Anterior pituitary (H&E stain)

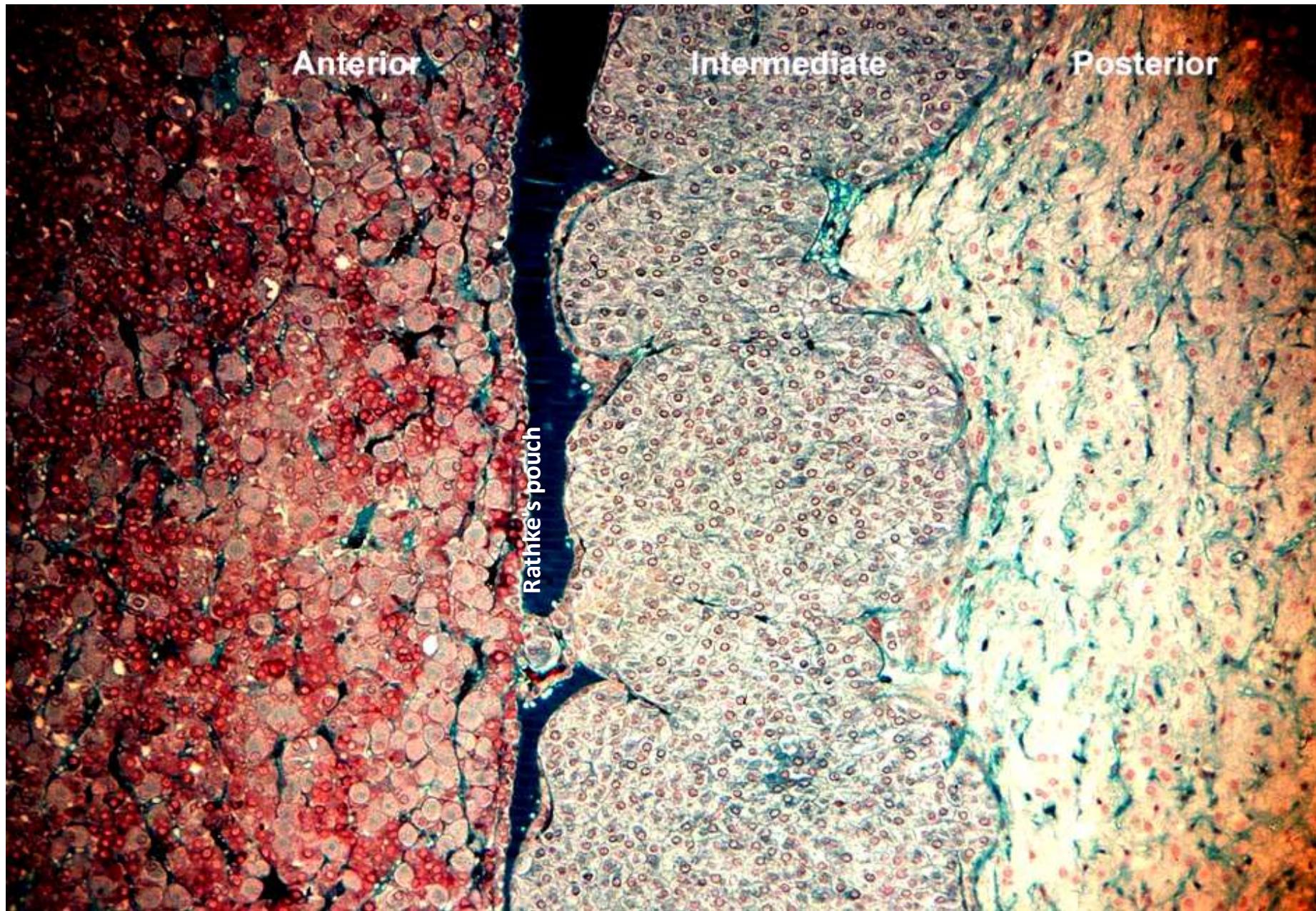


Pars intermedia, between anterior and posterior pituitary

**(Poorly developed and of
doubtful function in
humans)**

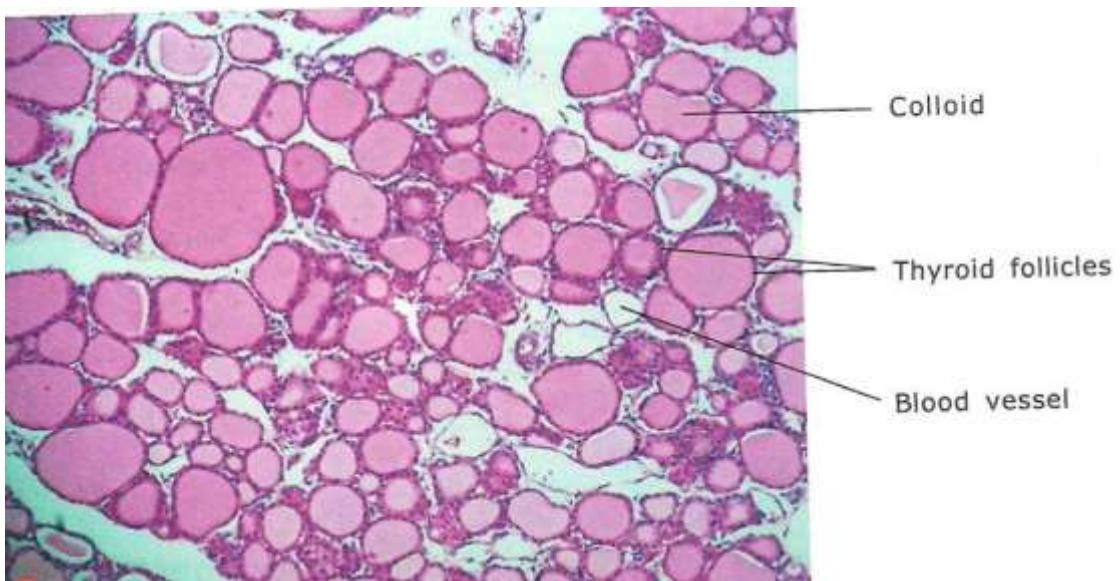


Pars intermedia (rat pituitary)

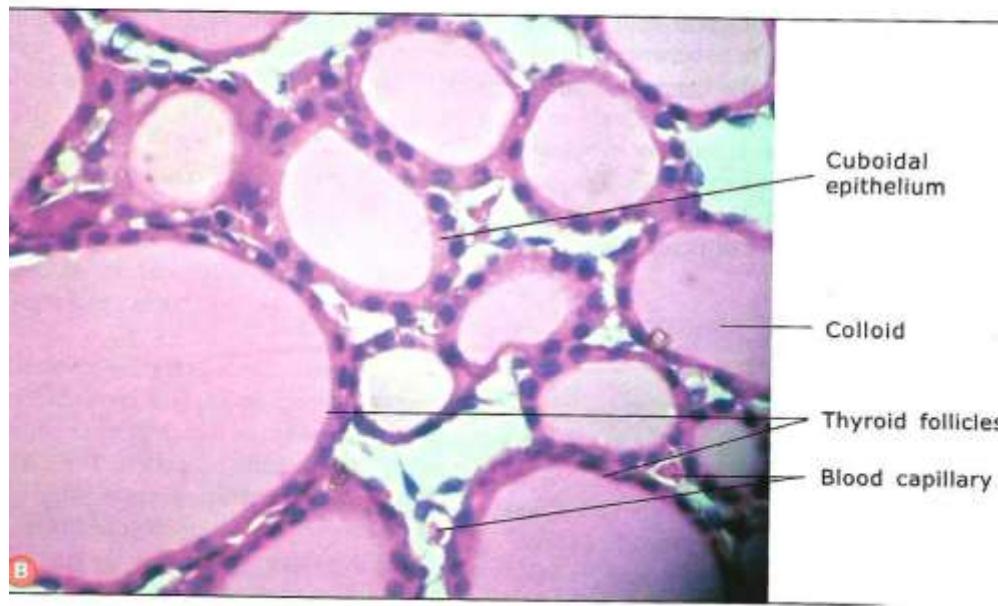
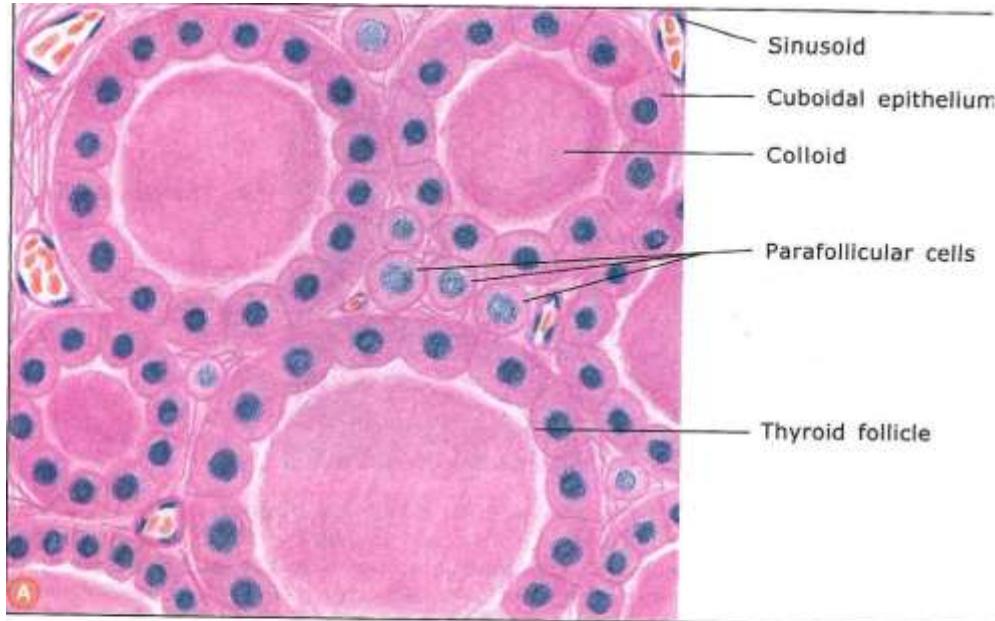


THYROID GLAND

Microscopic structure



THYROID GLAND

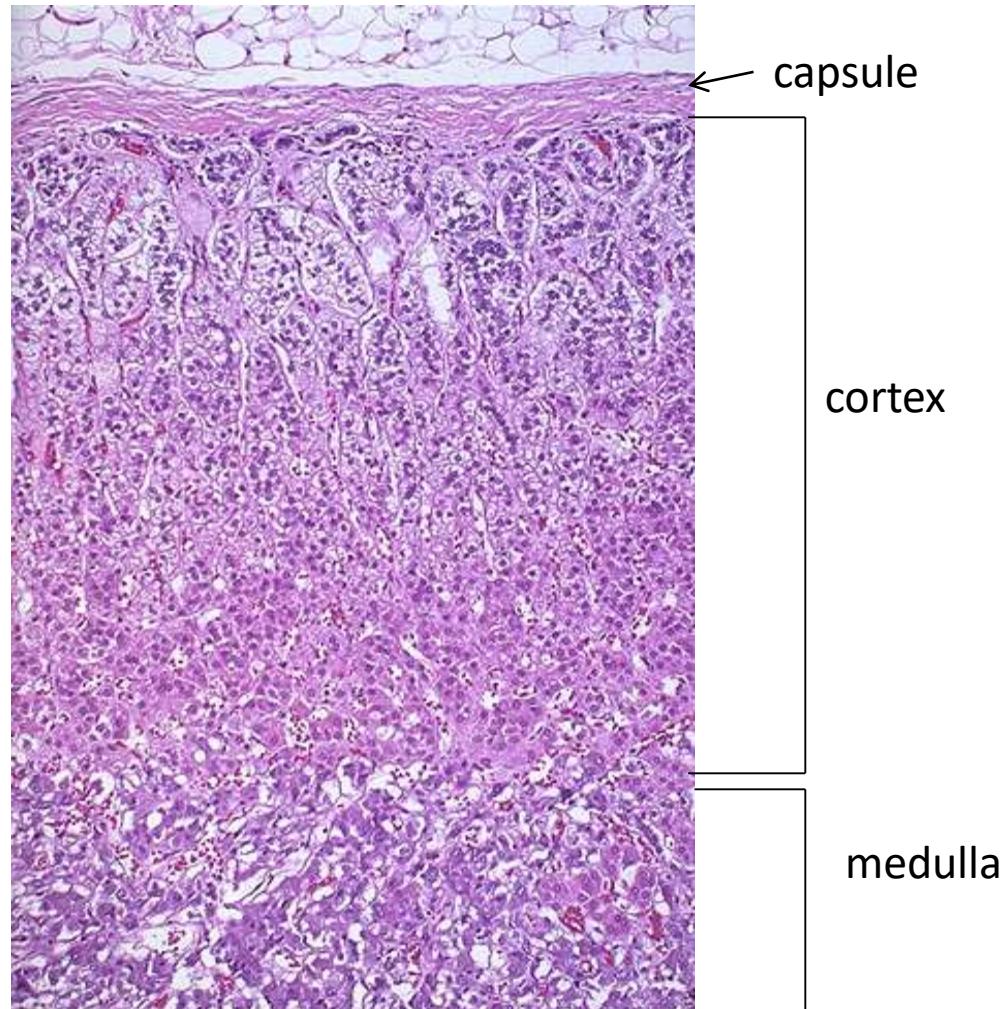


Parathyroid Gland (H&E stain)

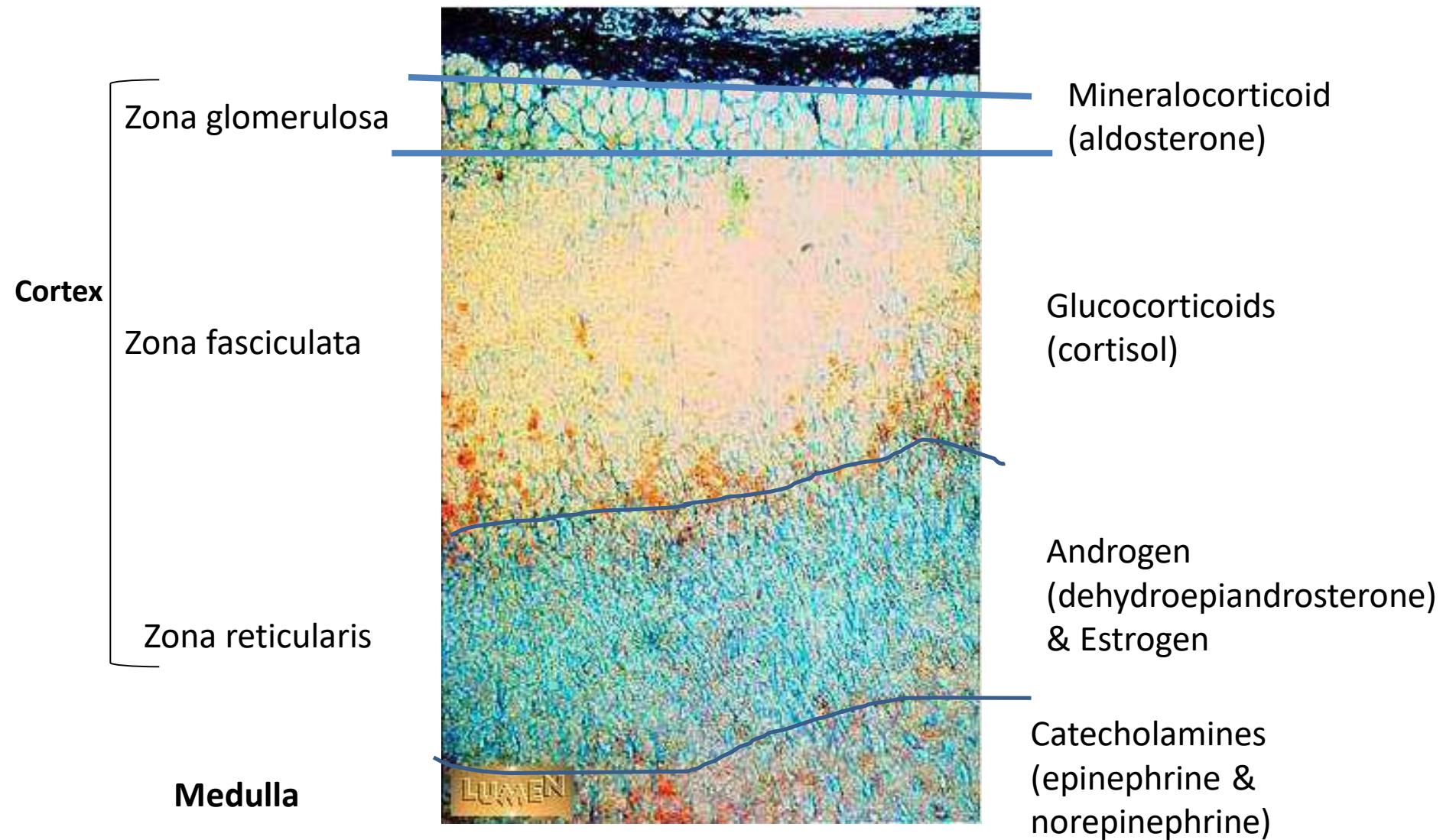


Adrenal Gland Microscopic structure (low power)

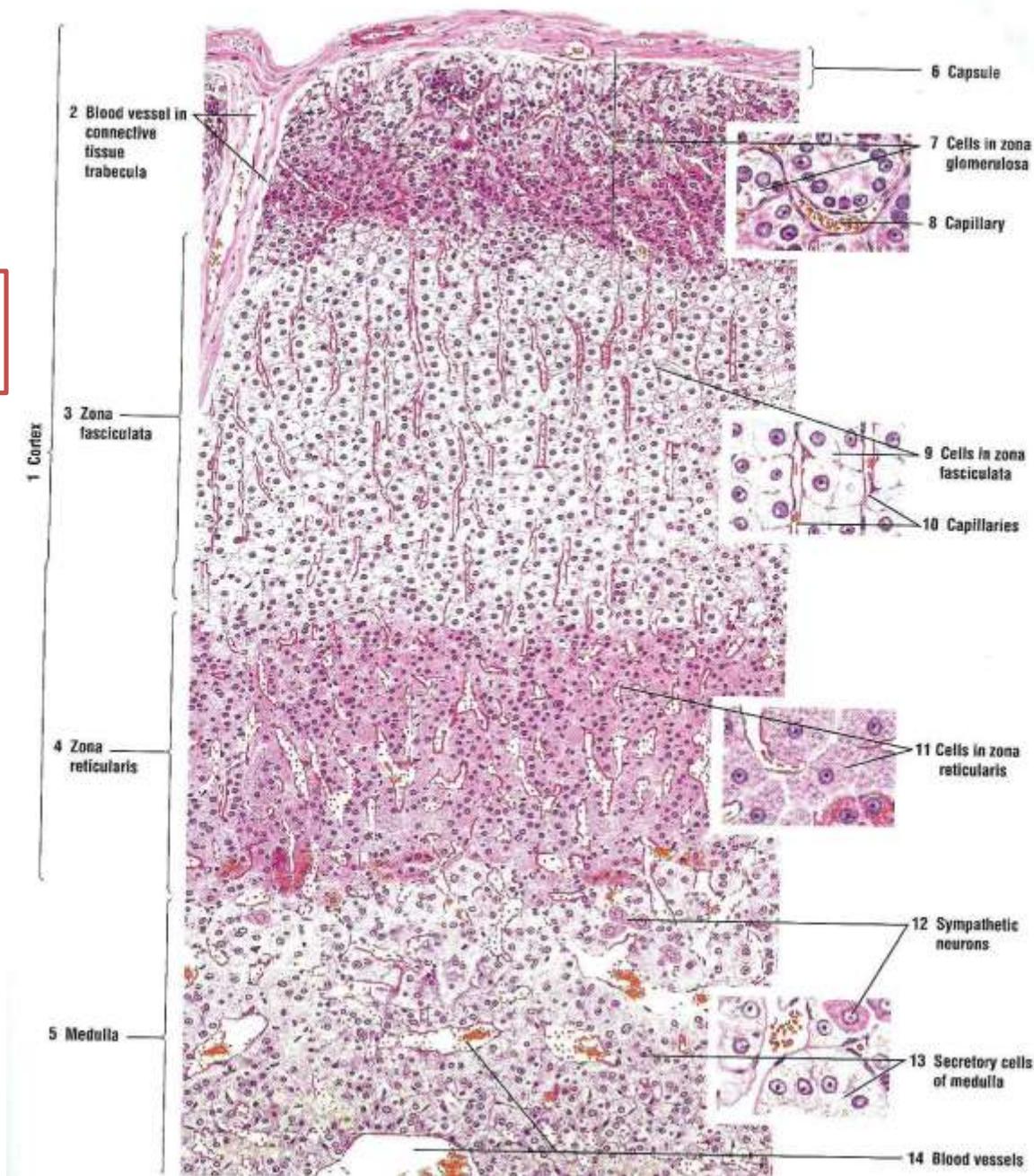
- The gland is covered by connective tissue capsule.
- Capsule sends septa inside the gland.
- 2 parts:
 - ✓ Cortex
 - ✓ Medulla



Microscopic structure (low power)

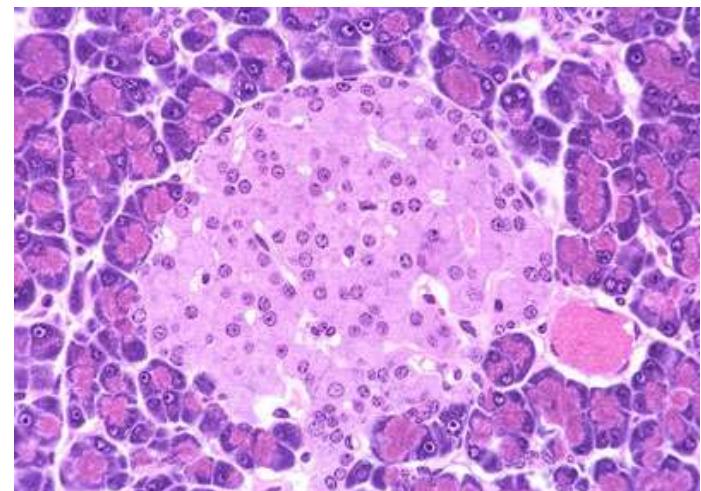
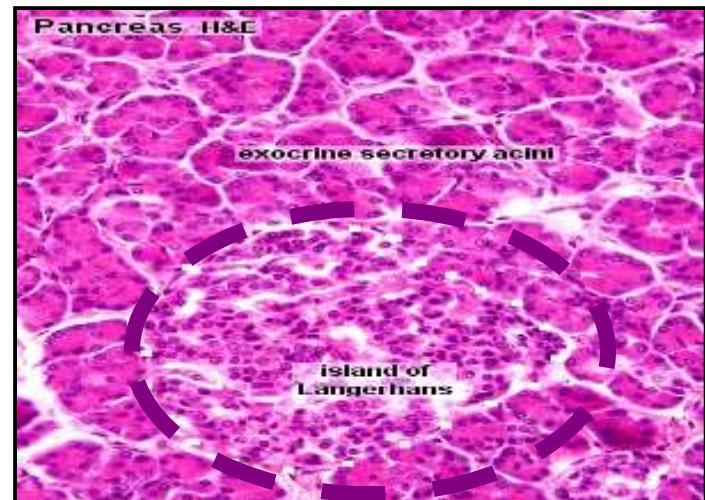
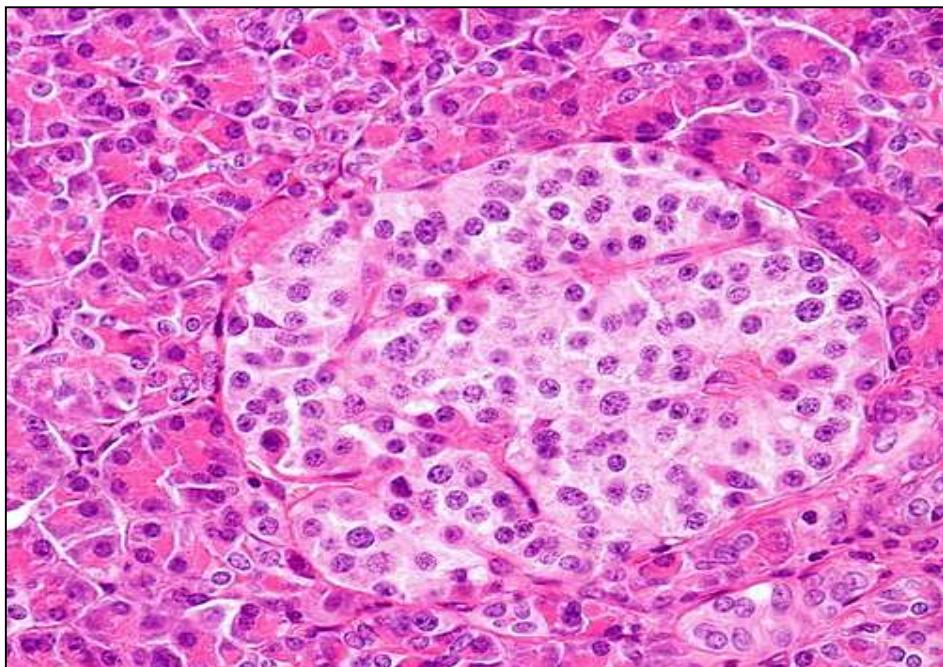


ADRENAL GLANDS



PANCREAS

Endocrine part: Islets of Langerhans



Diffuse neuroendocrine system

- Apudocytes or **APUD cells**
 - Classification according to staining activity
1. **Argentaffin cells:** ppt silver in absence of reducing agent
 2. **Argyrophilic cells:** ppt silver in presence of reducing agent
 3. **Chromaffin like cells:** bind K dichromate

• Mode of action

1. Endocrine → target organ
2. Paracrine → surrounding tissue
3. Autocrine → themselves
4. Neuroendocrine → neurosecretion

