PARATHYROID GLANDS

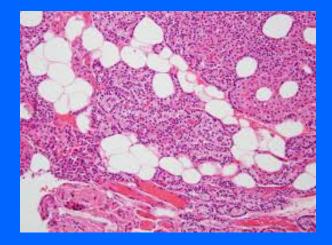


Students should be able to: 1. Describe the microscopic structure of the parathyroid gland. 2. Describe the functional structure of the parathyroid cells.



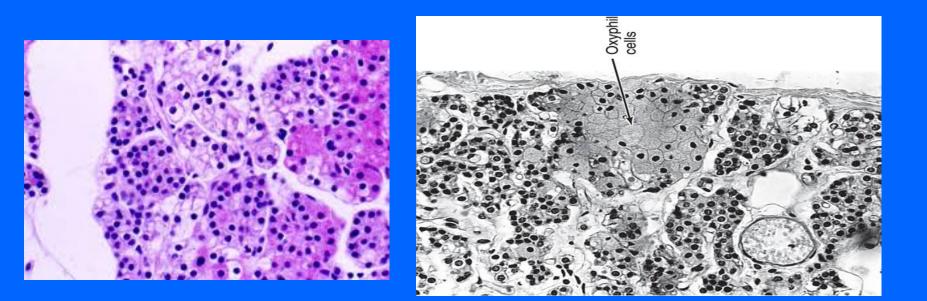
They are 4 glands on the post. of thyroid gland.

- (A) Stroma of parathyroid gland:
 - 1- Capsule: Each gland has its Thin capsule.
 - 2. Septa: thin.
 - 3. Reticular C.T.
- C.T. stroma in older adults often contains many adipose cells.



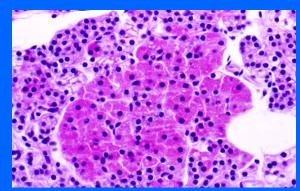
(B) Parenchyma of Parathyroid gland

The parenchyma is formed of cords or clusters of epithelial cells (chief cells & oxyphil cell) with blood capillaries in between. These cells are surrounded by reticular fibers.



(B) Parenchyma of Parathyroid gland

- 1. Chief cells: are slightly eosinophilic. are rich in rER. They secrete parathyroid hormone (
- blood calcium).**2. Oxyphil cells:**
 - They are arranged in groups or clusters
 or as isolated cells.
 They are deep eosinophilic (acidophilic)
 They have more numerous mitochondria
 They are less numerous but larger than chief cells.
 - They are of unknown function
 - N.B. (They may be inactivated chief cells).



BEST WISHES