## **PARATHYROID GLANDS**

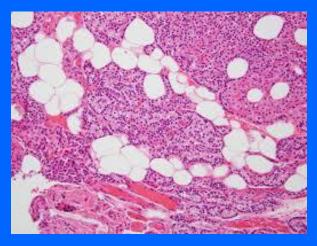


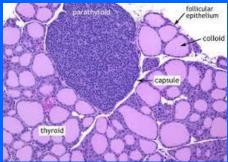
Students should be able to: 1. Describe the microscopic structure of the parathyroid gland. 2. Describe the functional structure of the parathyroid cells.



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

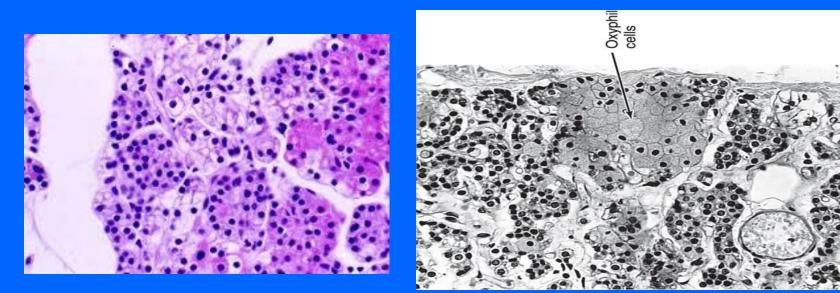
- (A) Stroma of parathyroid gland:
  - 1- Capsule: Each gland has its Thin capsule.
  - 2. Septa: thin.
  - 3. Reticular C.T.
- C.T. stroma in older adults often contains many adipose cells.





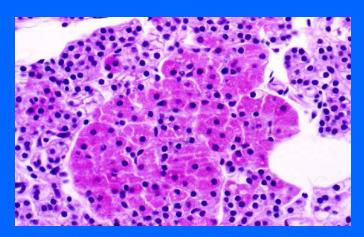
## (B) Parenchyma of Parathyroid gland

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**