



MED437
KING SAUD UNIVERSITY

OSPE file

Endocrine block



HISTOLOGY
TEAM 437

Pink: questions

Black: complete answers

Gray: notes | extra

➤ You should know before the exam:

- The exam will consist of **2 stations**.
- The pictures in these slides may not be the **same** in the exam.
- You have to mention the full name always and **don't use shortcuts** you could lose marks because of that.



Thyroid gland

Q1: Identify the structure (name of the gland)?

Thyroid gland

Q2: What is the type of Epithelium in this structure?

Simple cuboidal Epithelium

Q3: What is the type of capillaries found in this structure?

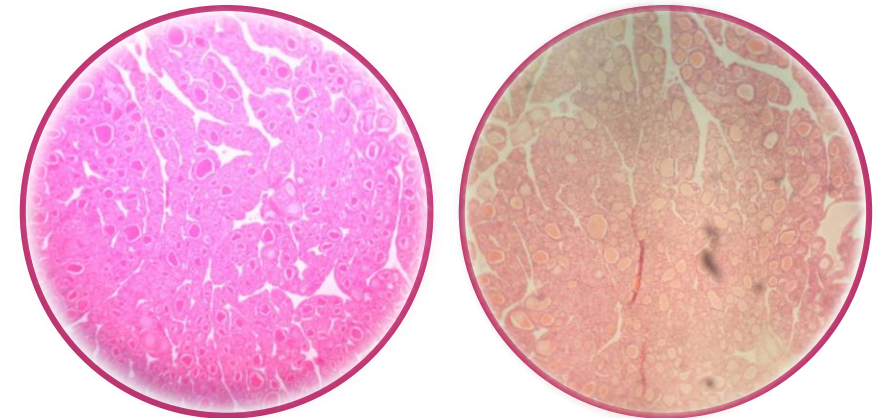
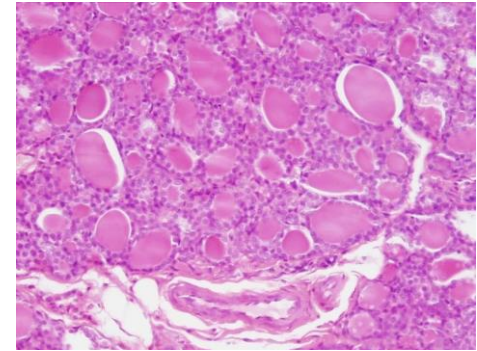
Fenestrated blood capillaries

Q4: What are the cells found in this structure?

- **Follicular cells**
(small size | more numerous | Basophilic cytoplasm)
- **Parafollicular cells** in between the follicular cells
(large size | less numerous | Pale-stained cells)

Q5: What is the feature of this structure?

Acidophilic Colloid and the other features mentioned above



Parathyroid gland

Q1: Identify the structure (name of the gland)?

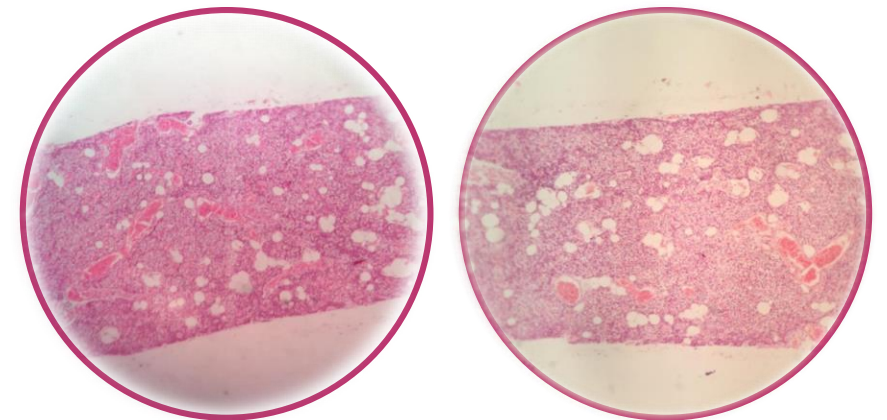
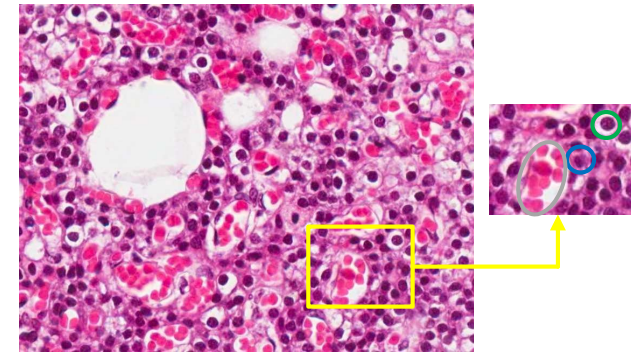
Parathyroid gland

Q2: What are the cells found in this structure?

- **Chief cells** (small size | more numerous | slightly eosinophilic)
- **Oxyphil cells** (large size | less numerous | deep eosinophilic)

Q3: What is the feature of this structure?

Contain many adipose cells (Adipocytes)
and the other features mentioned above



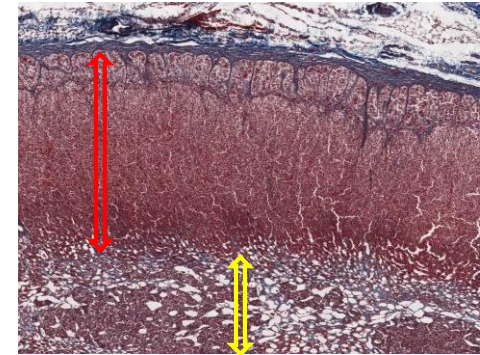
Adrenal (suprarenal) gland

Q1: Identify the structure (name of the gland)?

Adrenal (suprarenal) gland

Q2: What are the parts of this structure?

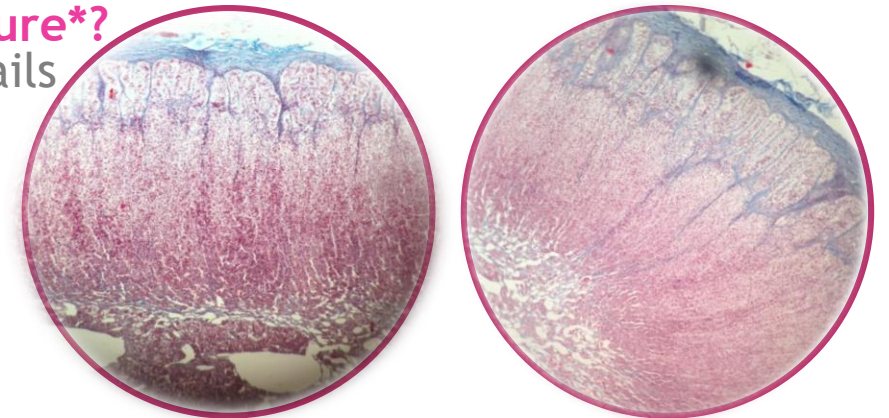
- Outer adrenal cortex
- Inner adrenal medulla



Q3: What are the Zones found in the parts of this structure*?

*If asked about details

- Outer adrenal cortex:
 - Zona glomerulosa (clusters of short columnar cells under the capsule)
 - Zona fasciculata (spongiocytes foamy cells)
 - Zona reticularis (cords and reticulum of acidophilic cells with lipofucin pigments)
- Inner adrenal medulla:
 - Chromaffin cells (most abundant & Basophilic cytoplasm)
 - Sympathetic ganglion cells (large neurons with melanin pigments)



“YOU BECOME WHAT YOU BELIEVE”

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