Histology Team 431

Leaders

Tamader Aloofy

Mohammed Aldaheri

Members

Ibtihal Al-Amer

Nasser Alsaleh

Raghda Al Amri

Ahmed Saleem
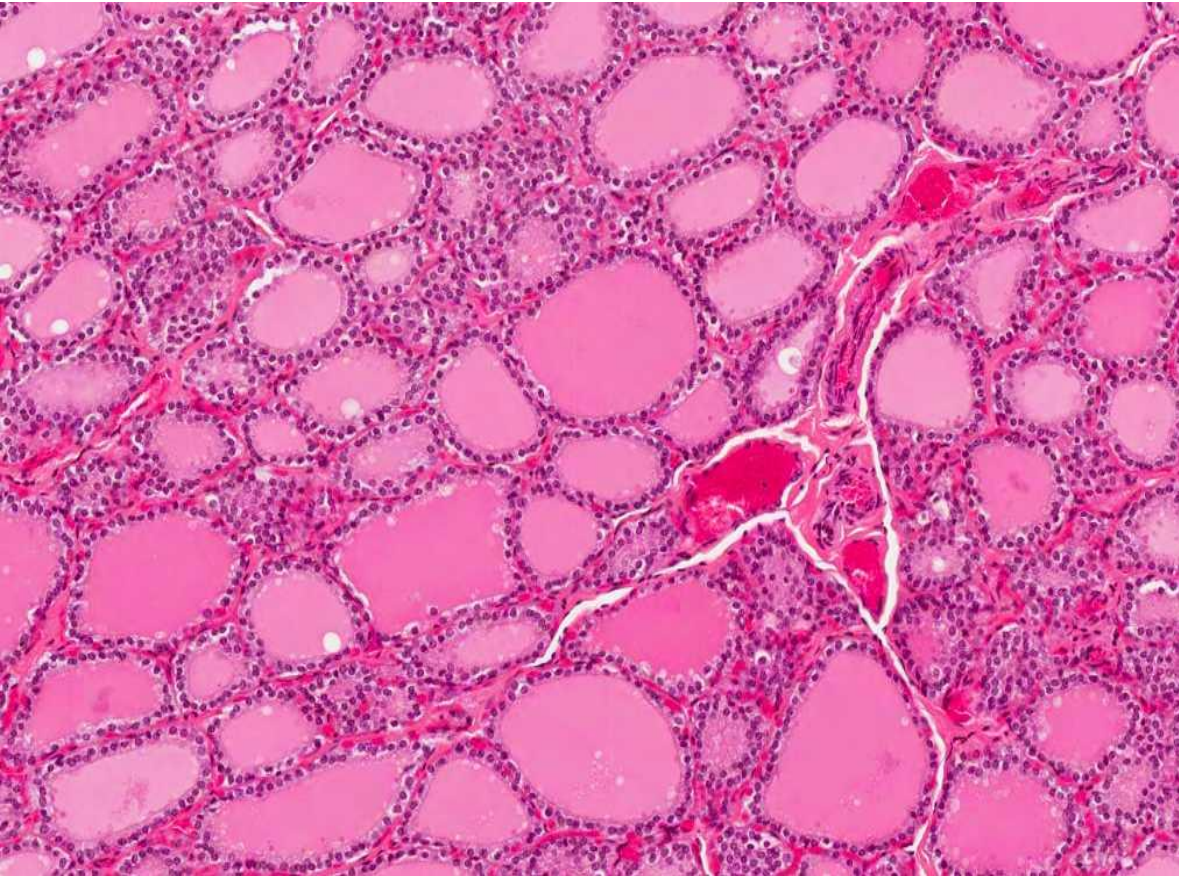
Walaa Al Shehri

Mosaed Aldekhayel

Abeer Al-Suwailem

Nouf Aboalsamh

The important things to know:

1- Identify the section
2- Identifying features
3-Enumerate the cell types

Thyroid Gland

Identifying features:
Thyroid follicles
Or
1-Acidophilic colloid
2-Simple cuboidal epithelium.
3-Follicular cells
4-Parafollicular cells

Enumerate the cells:
1- Follicular cells
2-Parafollicular cells
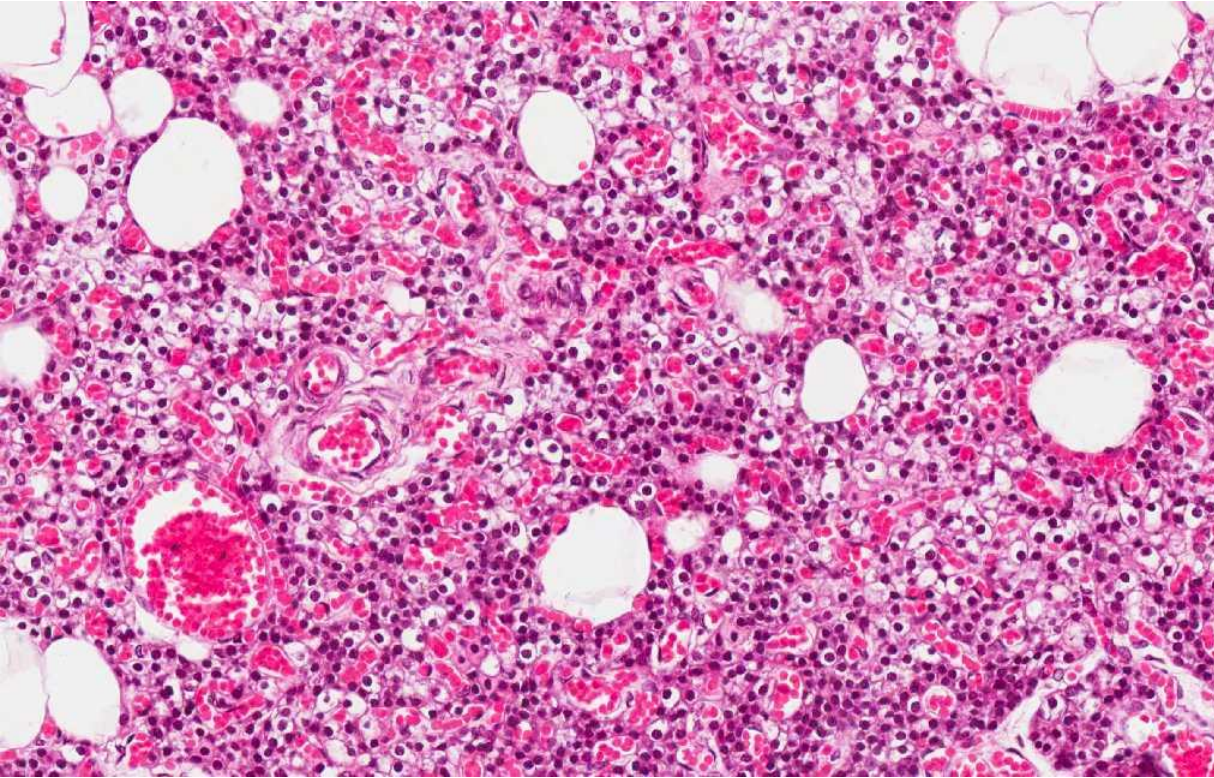
Thyroid Gland high magnification

1-Thyroid follicle

2-Colloid (Acidophilic)

3-Parafollicular cells

Parathyroid Gland

Identifying features:
1-Chief cell (cuboidal in shape)
2-Oxyphil cell (cuboidal in shape)
3- fenestrated blood capillaries
4- fat cells
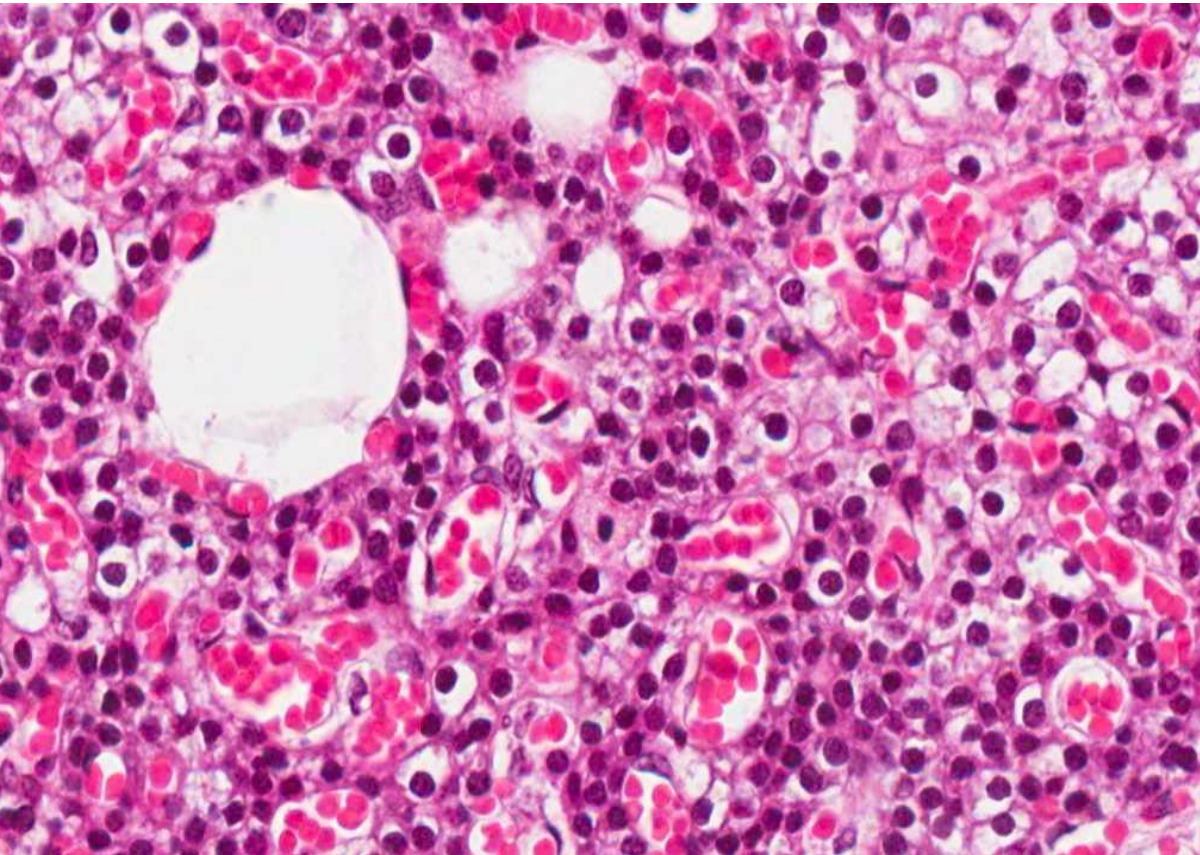Enumerate the cells
1-Chief cells
2-Oxyphil cells

▪ **fat cells are not basic component of parathyroid gland, they indicate aging of the gland.**
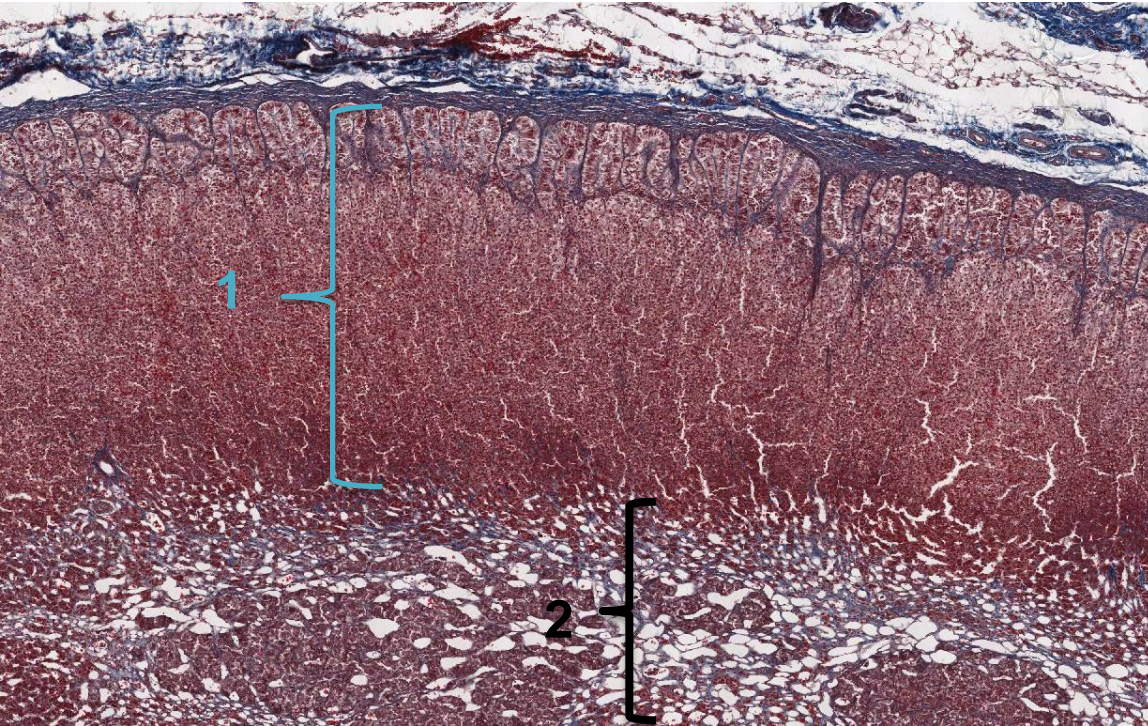
Parathyroid Gland high magnification

Identifying features:
1-Chief cell (cuboidal in shape)
2-Oxyphil cell (cuboidal in shape)
3- fenestrated blood capillaries
4- fat cells
Enumerate the cells
1-Chief cells
2-Oxyphil cells

▪ **fat cells are not basic component of parathyroid gland, they indicate aging of the gland.**

Adrenal Gland

Identifying features:
1-Zona glomerulosa
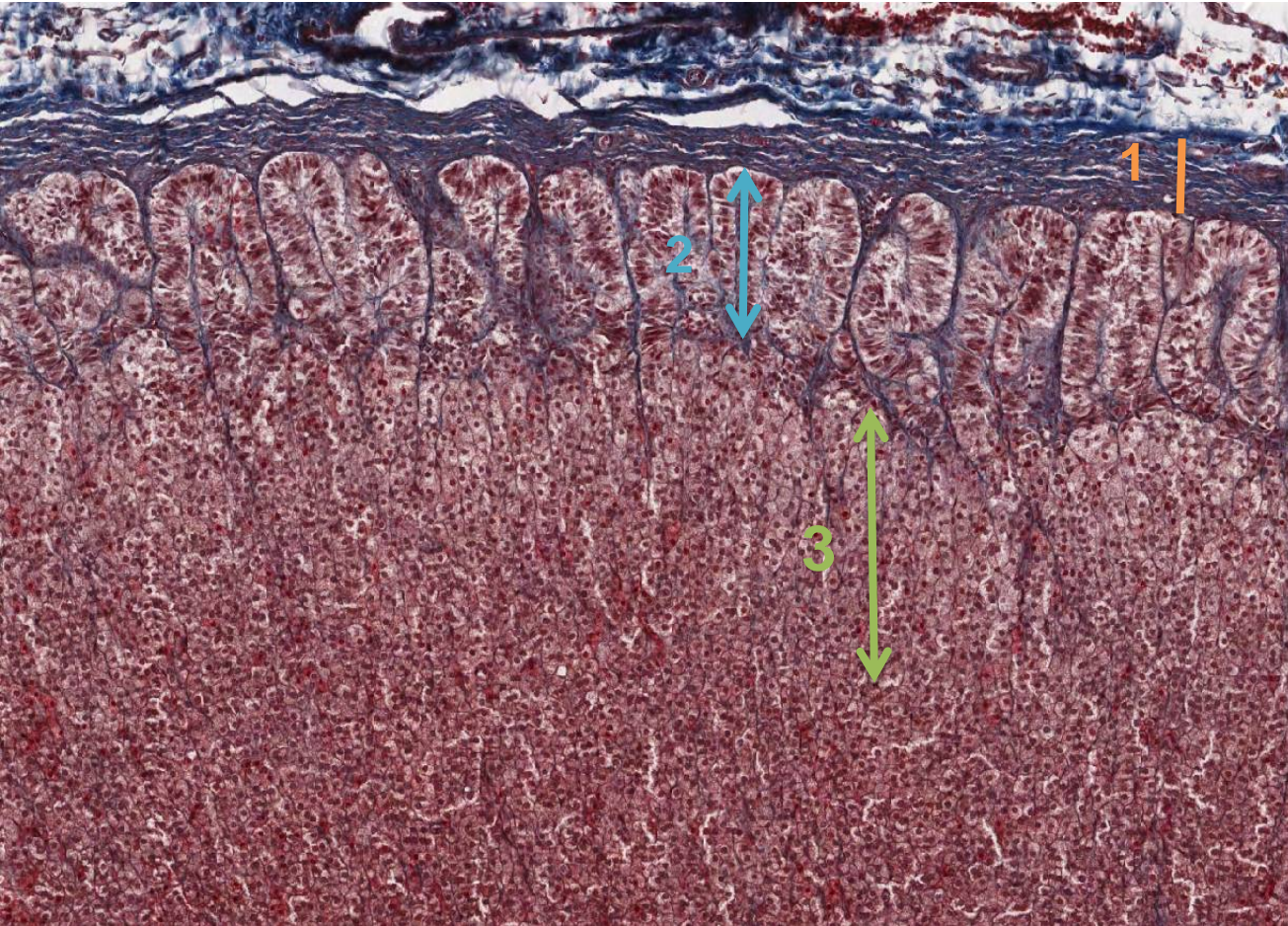2-Zona fasciculata
3-Zona reticularis
4-Adrenal medulla

Enumerate the cells:
1-Spongiocyte in zona fasciculata (Arranged in columns)
2-Zona glomerulosa
3-Zona reticularis (Polygonal cells)

1-Adrenal cortex
2-Adrenal medulla

Adrenal Gland high magnification

1- Capsule

2- Zona glomerulosa

3- Zona fasciculata