Histology

Practical histology

Baneen falih sweed.

The Epithelial tissue

Simple Epithelial Tissues

a. Simple squamous epithelium tissue

Simple couboidal Epithelial Tissue*b

c * Simple columnar epithelium tissue

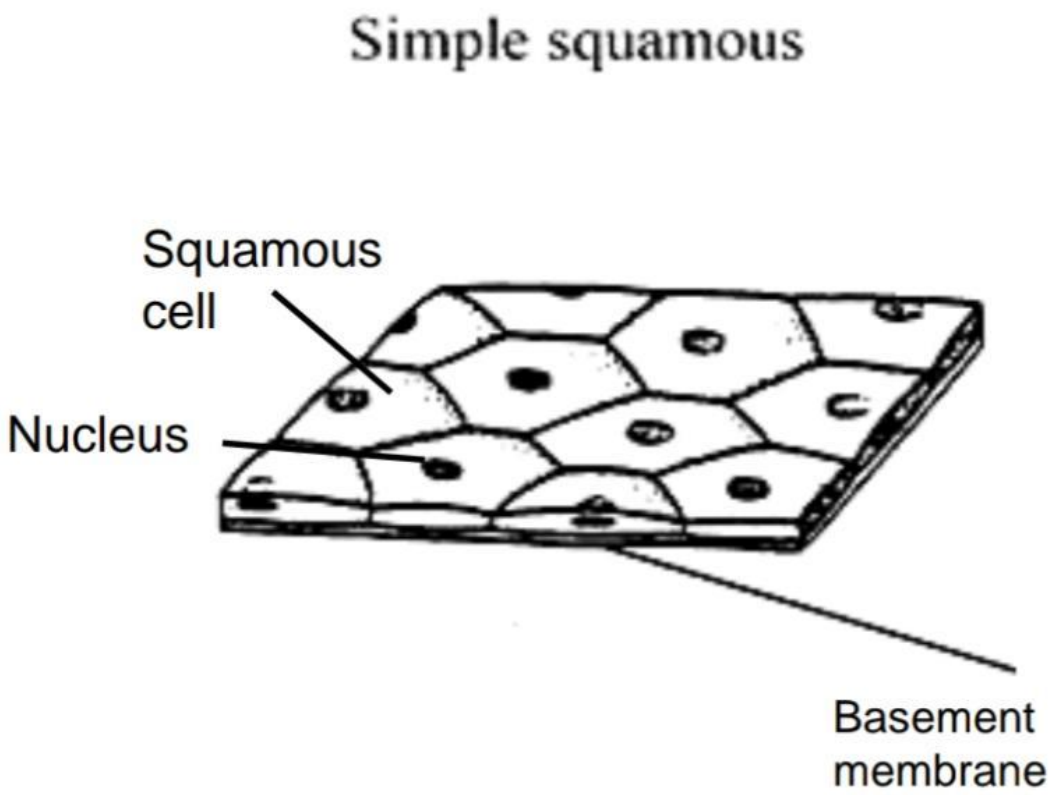
d * Ciliated Pseudo-Stratified Columnar Epithelial Tissue

A.Simple squamous epithelial tissue

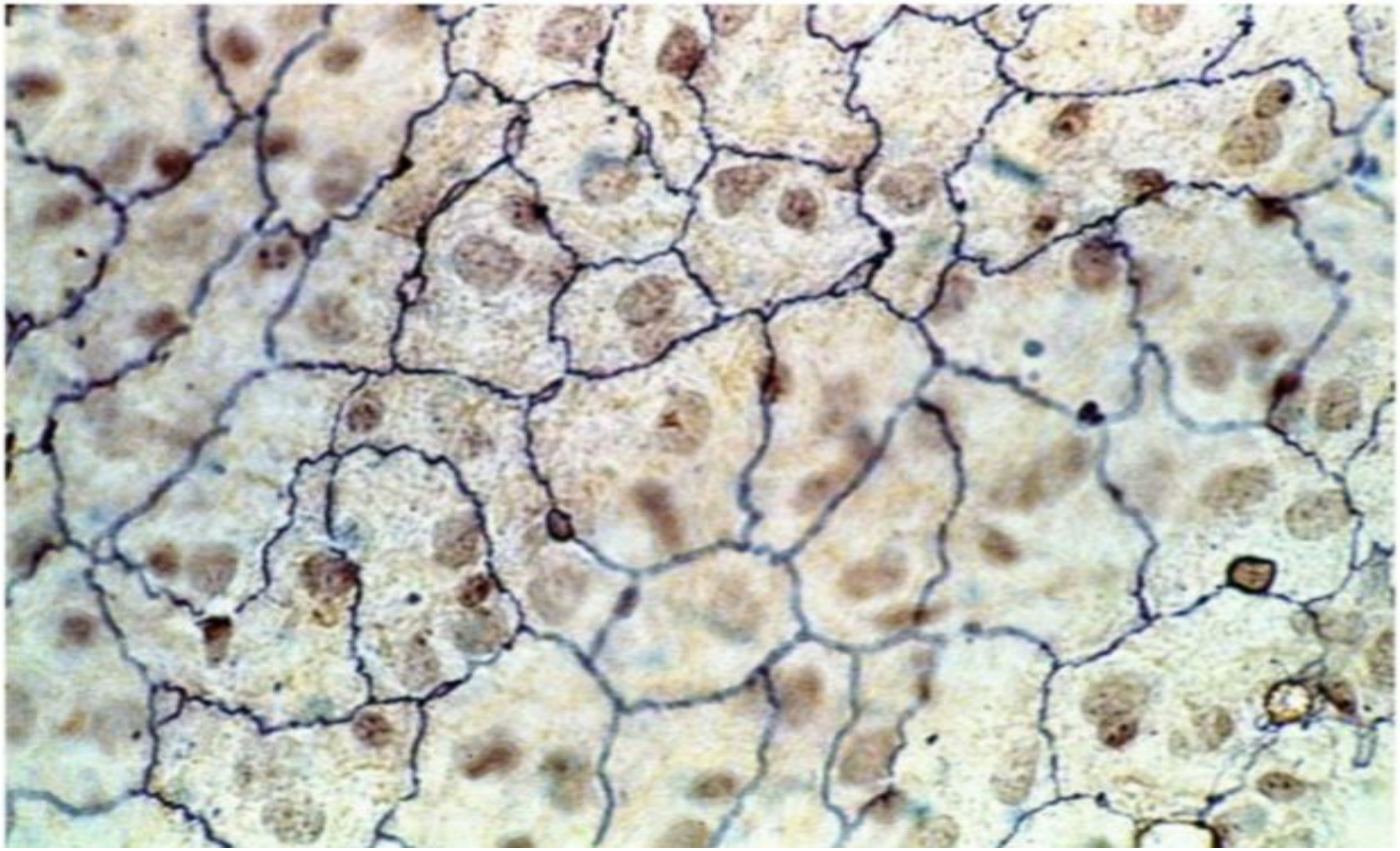
Single layered

- Flat cells
- On surface view, like floor tiles
- Elevated nuclei
- **Examples:**

- Lung alveoli
- Parietal layer of Bowman's capsule of kidney
- Inner aspect of tympanic membrane
- Mesothelium
- Endothelium



Function: Rapid transport of substances, secretion of fluid, diffusion of gases and osmosis



Simple Cuboidal Epithelium

Single layer of cuboidal shaped cells

- **Examples:**

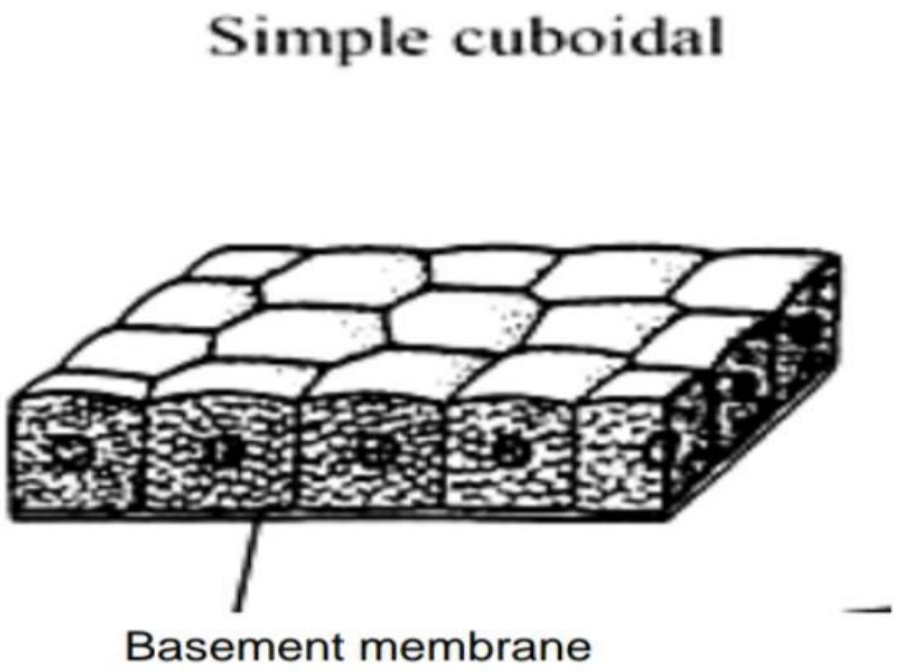
-Thyroid follicles

-Tubules of nephrons

- Germinal layer of ovary

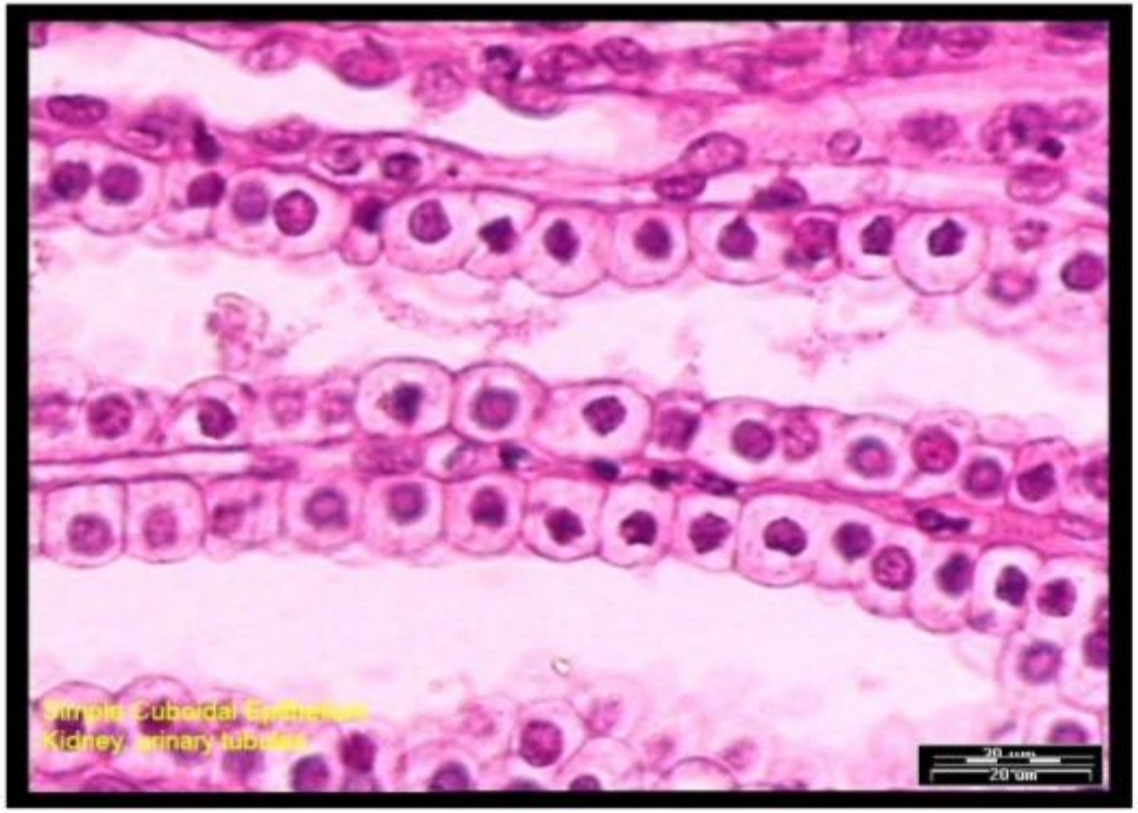
- Inner layer of lens

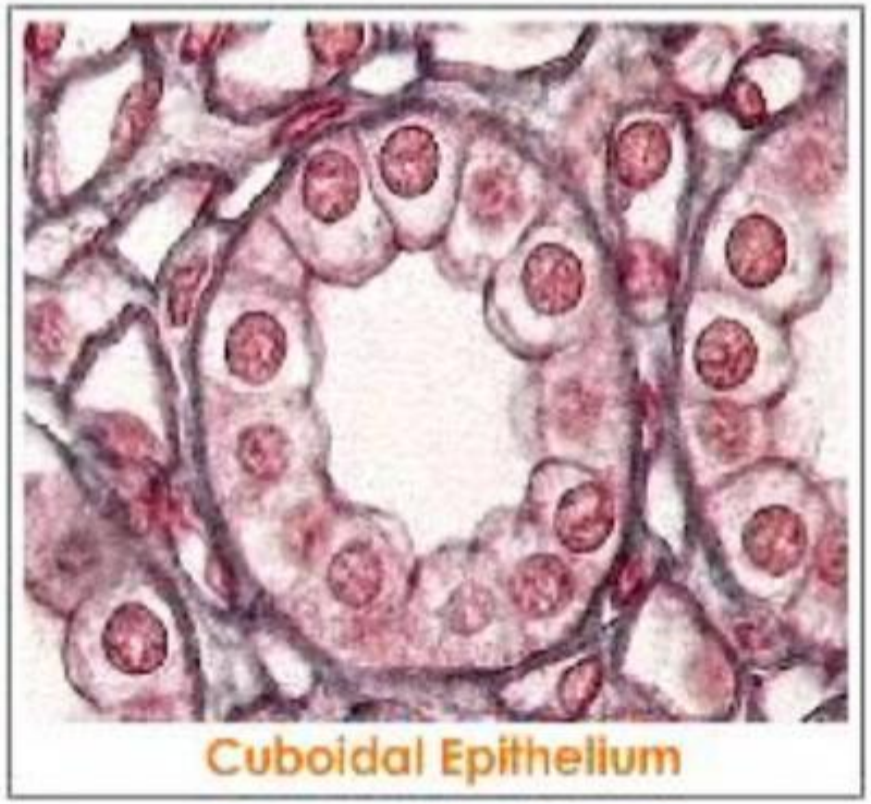
- Choroid plexuses of brain



Function: Secretion and absorption

Simple Cuboidal Epithelium



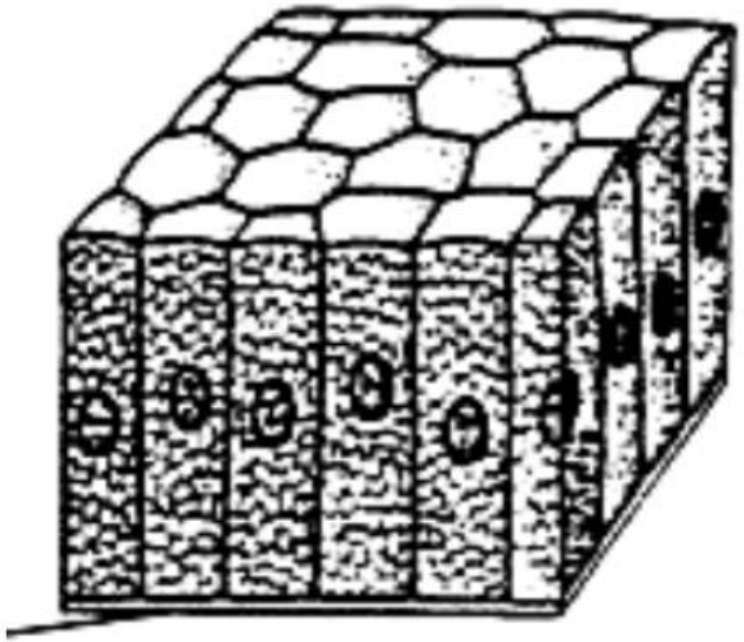


Simple Columnar Epithelium

Cells having more height than width

- Nuclei are elongated,
- **Examples**:
  - GIT(stomach to anus)
  - Gall bladder
  - Uterine tube & cavity
  - Central canal of spinal cord

Simple columnar



Function: Secretion and absorption; Ciliary action

Ciliated Pseudo-Stratified Columnar Epithelial Tissue

the type of respiratory epithelium found the linings of the trachea

respiratory

tract

which allows filtering and humidification incoming air

Mucosal folds
smooth muscle