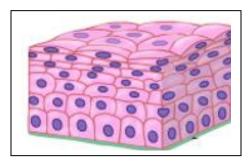
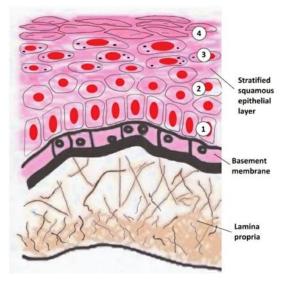
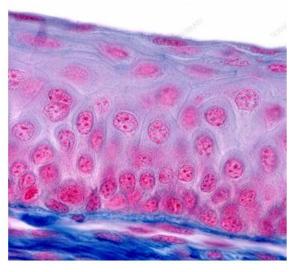
Types of Animal Tissue

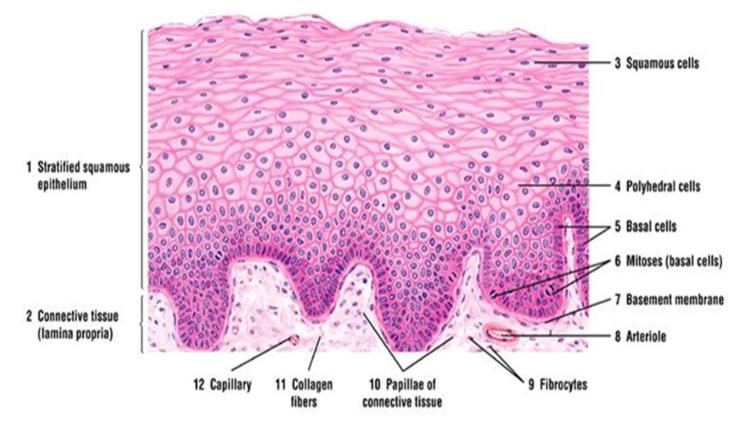
5th Lab 2. Stratified Epithelium

- It is made of several layers of cells.
- The top cells are flat and scaly and it may or may not be keratinised (i.e. containing a tough, resistant protein called keratin).
- Stratified epithelium is classified into the following types based on the shape of the constituent cells:
- **1.** Stratified squamous epithelial tissue:
 - A. Non-Keratinised Stratified squamous epithelial tissue.
 - B. Keratinised Stratified squamous epithelial tissue.
- 2. Stratified cuboidal epithelial tissue.
- 3. Stratified columnar epithelial tissue.
- 4. Transitional epithelial tissue.
- **<u>1A. Non-Keratinised Stratified squamous epithelial tissue</u>**
- Multiple layers of superficial squamous cells.
- Non-keratinized, surfaces must be kept
- moist by bodily secretions to prevent them from drying out.
- Found: in mouth, pharynx, esophagus.
- Function: Protection against abrasion.



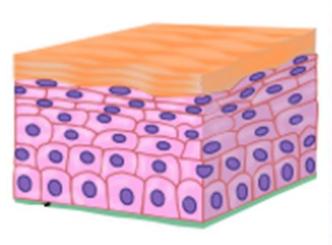


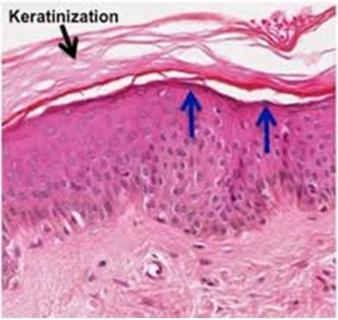


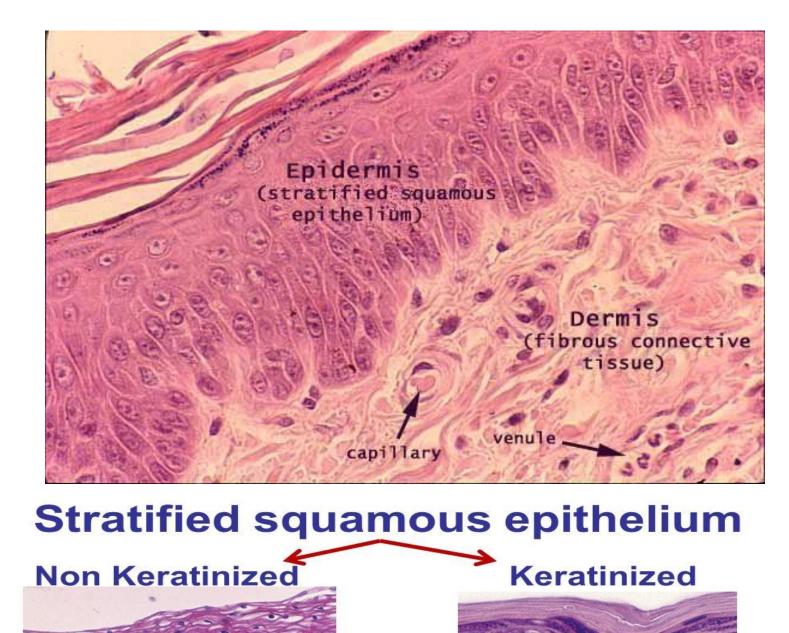


<u>1B. Keratinised Stratified squamous epithelial tissue</u>

- Multiple layers of squamous cells, the apical layer of cells is dead and filled with the protein keratin.
- Found: in epidermis, dry areas, like hair, skin and nails.
- Function: Protection against abrasion.





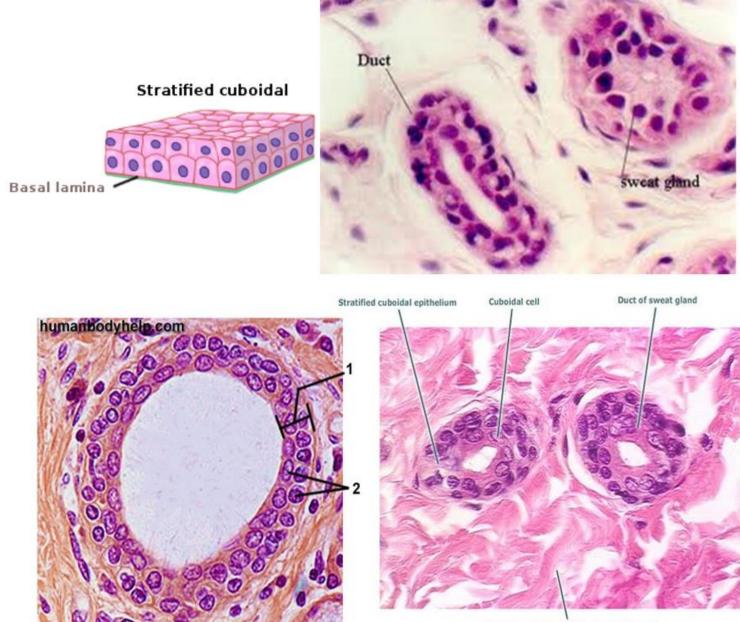


Epithelium

Oesophagus- vagina (Physical protection)

2. Stratified cuboidal epithelial tissue

- It consists of two or more layers of cuboidal cells.
- Found: in sweat gland ducts.
- Function: Secretion.

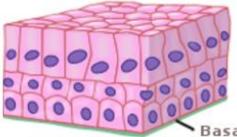


Dense irregular connective tissue (dermis)

3. Stratified columnar epithelial tissue

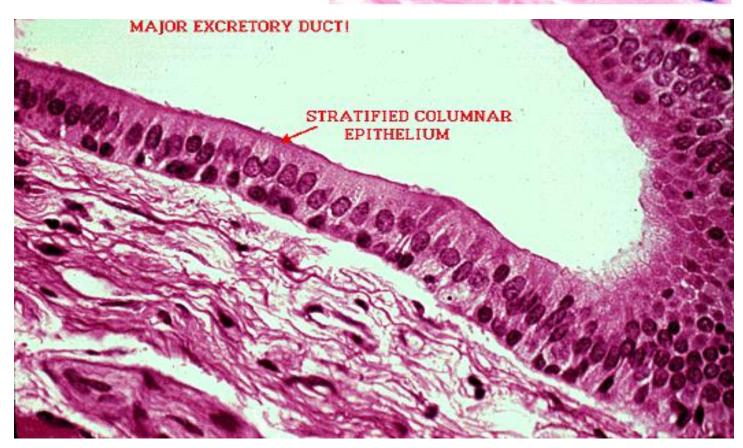
- It consists of two or more layers of columnar cells (VERY RARE).
- Found: in membranous male urethra and salivary glands.
- Function: Secretion.

Stratified columnar



Basal lamina

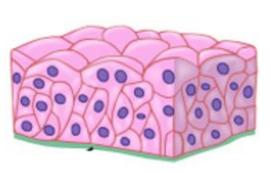


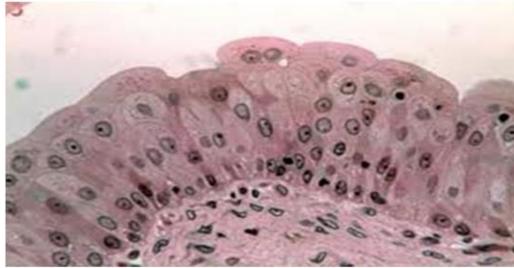


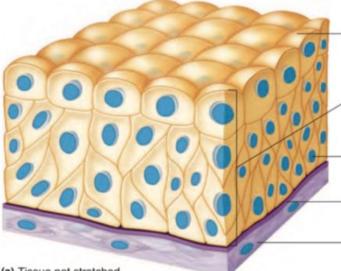
4. Transitional epithelial tissue

- The cells in the superficial layers are not truly squamous, cuboidal or columnar.
- These cells are large and rounded or conical.

- Found: in the urinary bladder.
- Function: The epithelium allows distention.







(a) Tissue not stretched

- Unstretched transitional

Free surface of tissue

epithelium Nucleus —

Connective tissue

