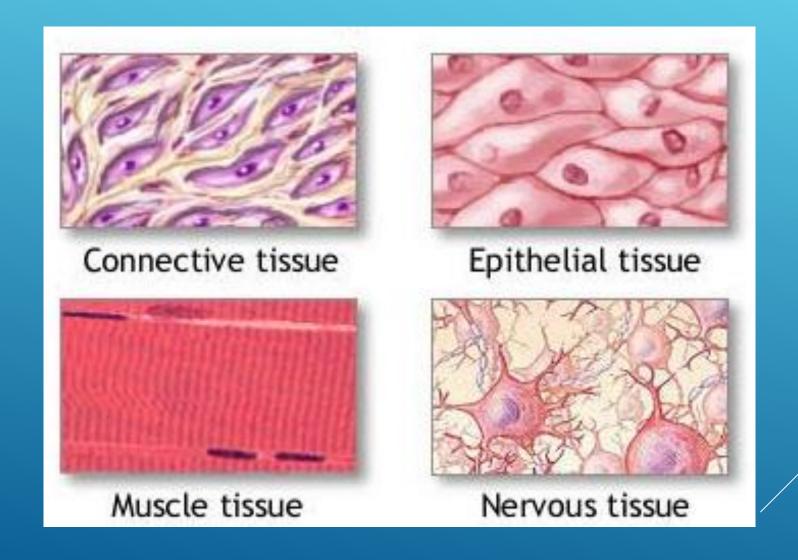
BIOLOGY LAB. EPITHELIAL TISSUE

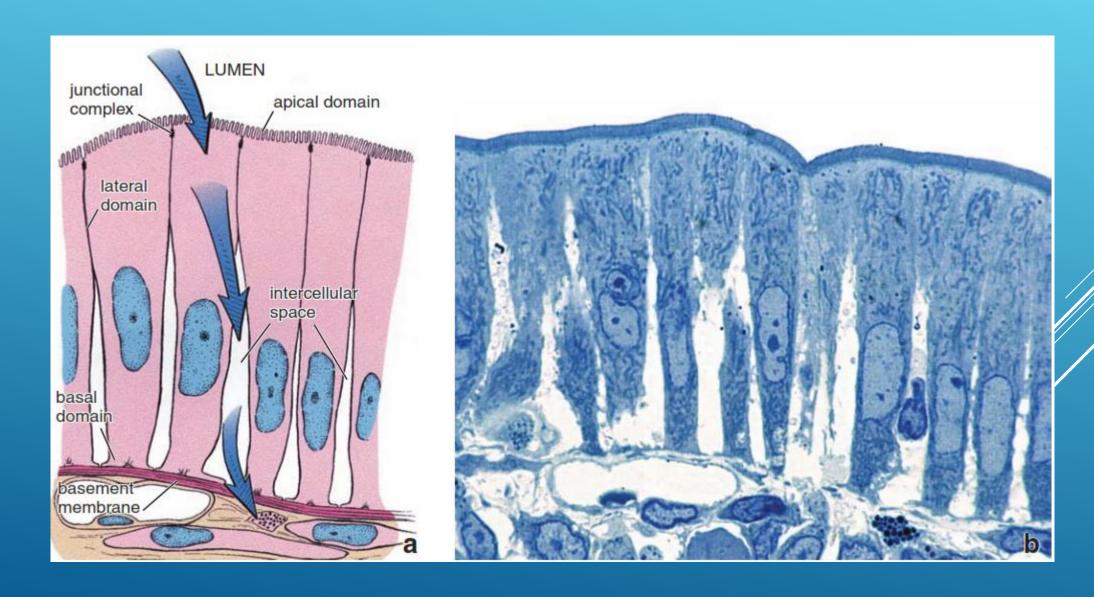
TYPES OF BODY TISSUES



EPITHELIAL TISSUES

- Cover body surfaces
- Line body cavities
- Line body tubes
- Form secretory portions of glands & their ducts

EPITHELIAL CELL



EPITHELIAL TISSUE

Number of layers

Simple (single layer)

Shape of cells

Simple squamous epithelium

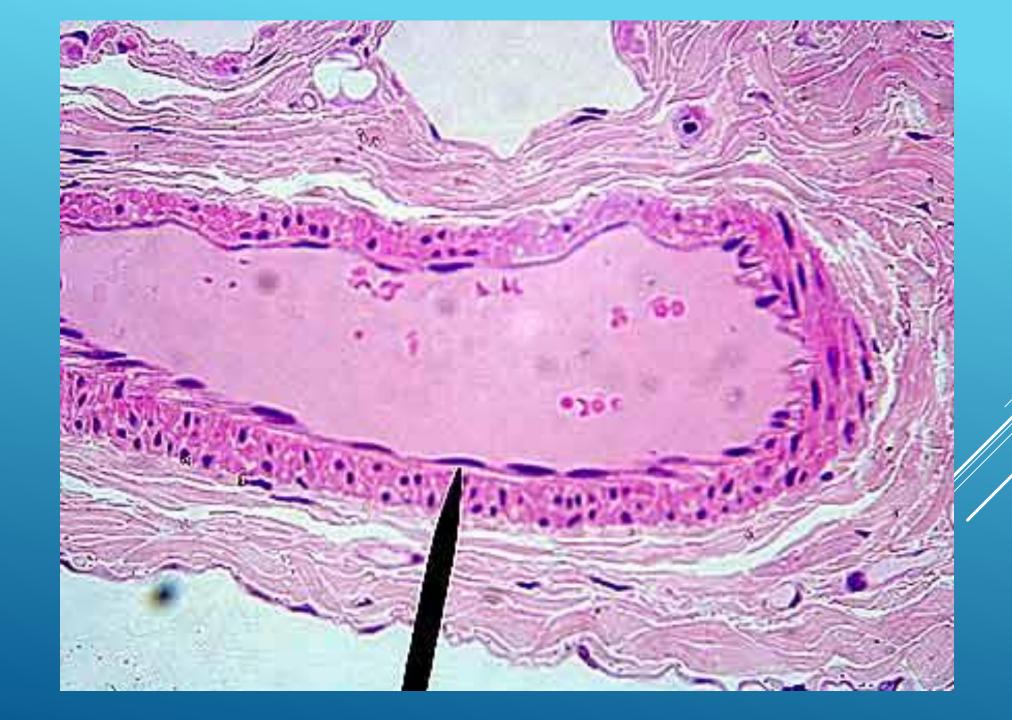
Simple cuboidal epithelium

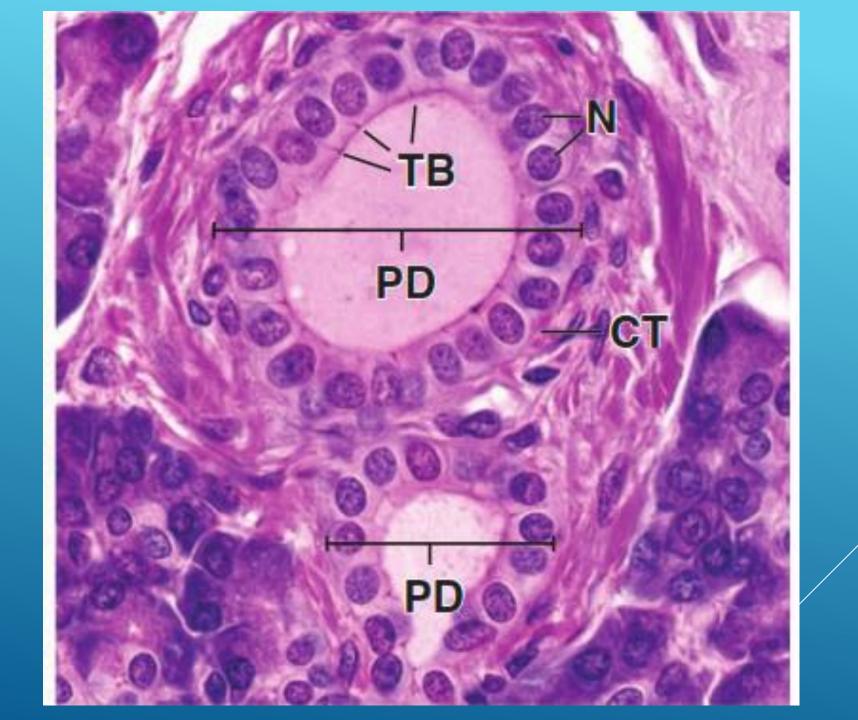
Simple columnar epithelium

Pseudostratified epithelium

Stratified (multiple layer)

	Classification	Some Typical Locations	Major Function
	Simple squamous	Vascular system (endothelium) Body cavities (mesothelium) Bowman's capsule (kidney) Respiratory spaces in lung	Exchange, barrier in central nervous system Exchange and lubrication Barrier Exchange
	Simple cuboidal	Small ducts of exocrine glands Surface of ovary (germinal epithelium) Kidney tubules Thyroid follicles	Absorption, conduit Barrier Absorption and secretion
20000000000000000000000000000000000000	Simple columnar	Small intestine and colon Stomach lining and gastric glands Gallbladder	Absorption and secretion Secretion Absorption
	Pseudostratified	Trachea and bronchial tree Ductus deferens Efferent ductules of epididymis	Secretion, conduit Absorption, conduit





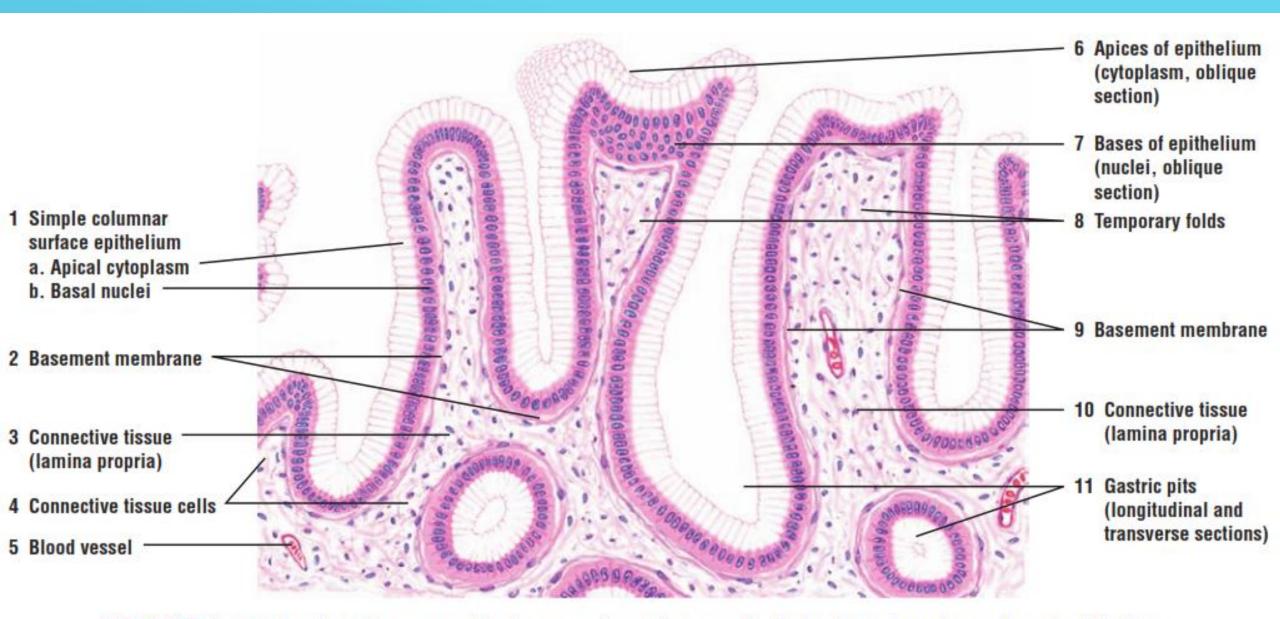


FIGURE 2.4 Simple columnar epithelium: surface of stomach. Stain: hematoxylin and eosin. Medium magnification.

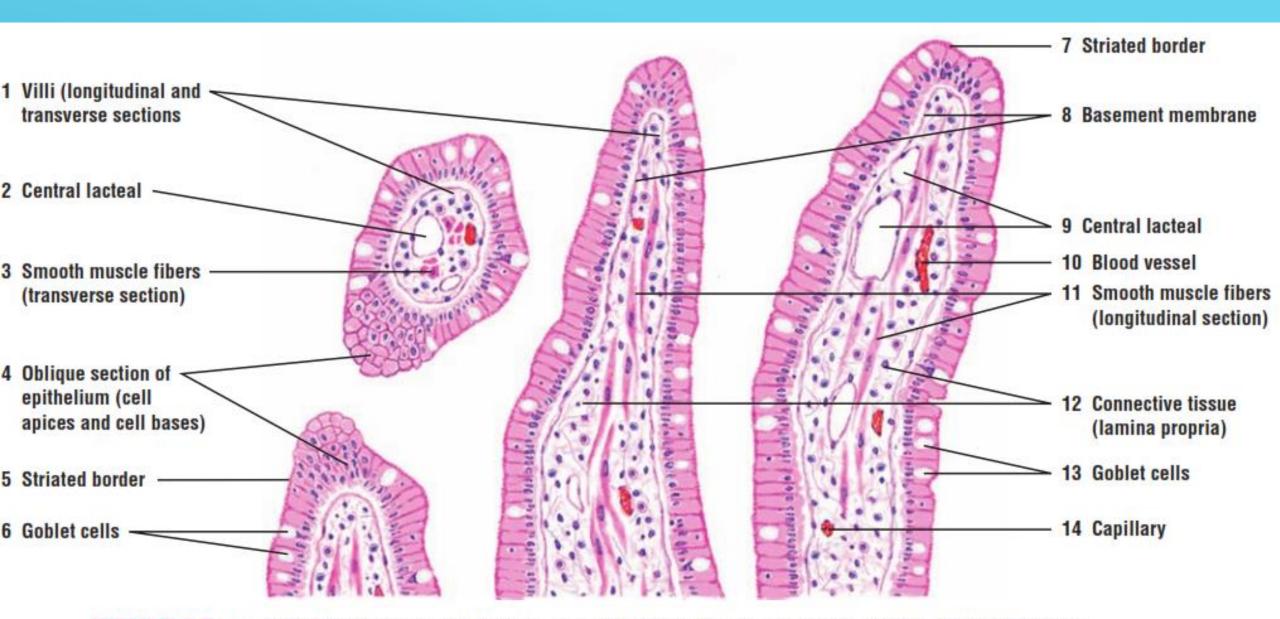


FIGURE 2.5 Simple columnar epithelium on villi in small intestine: cells with striated borders (microvilli) and goblet cells. Stain: hematoxylin and eosin. Medium magnification.

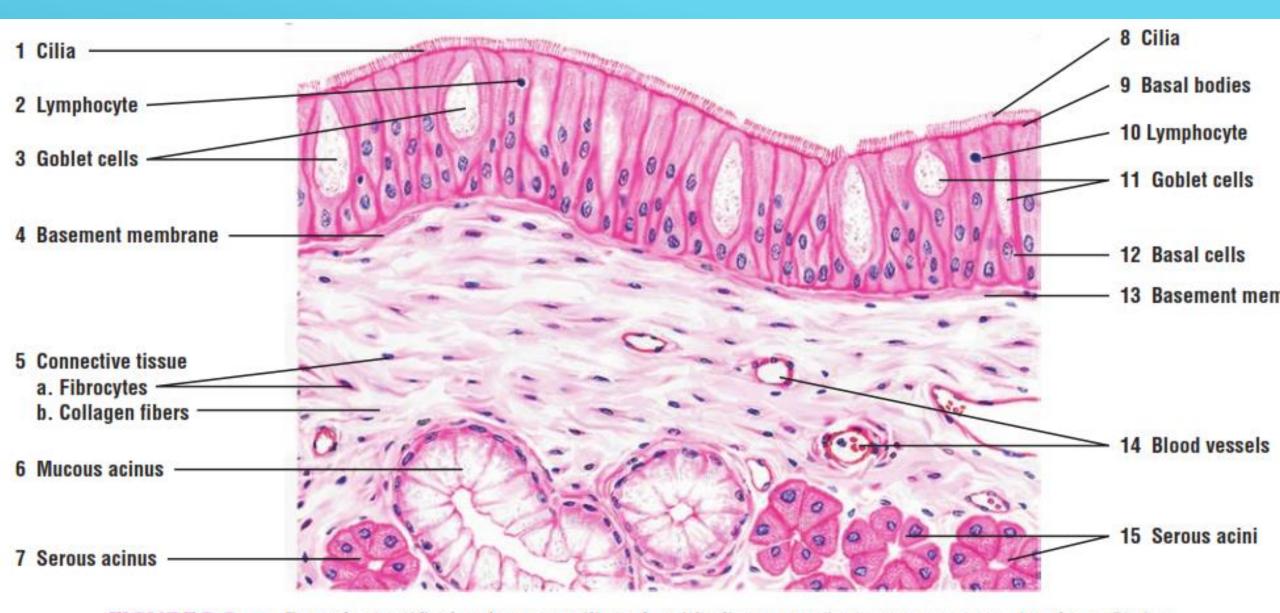
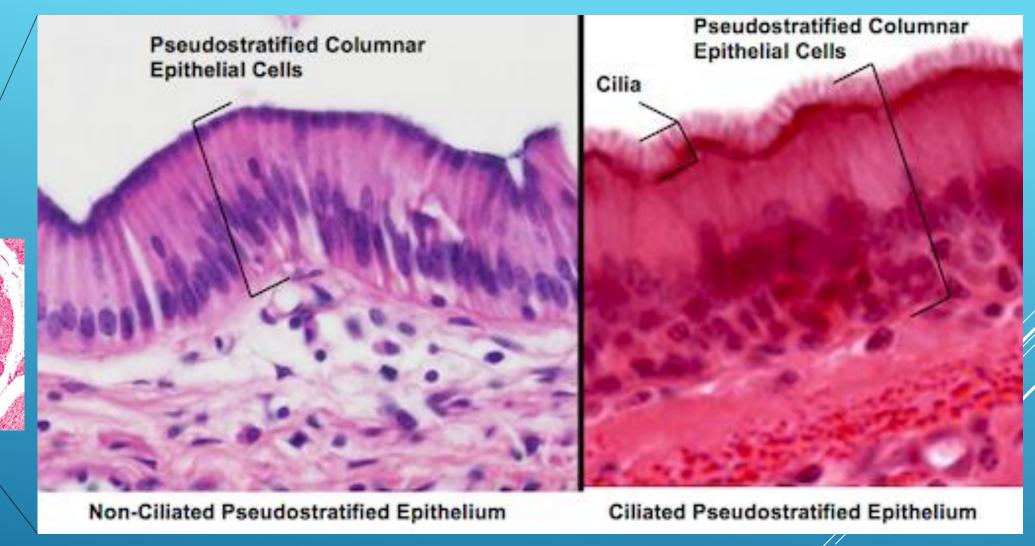
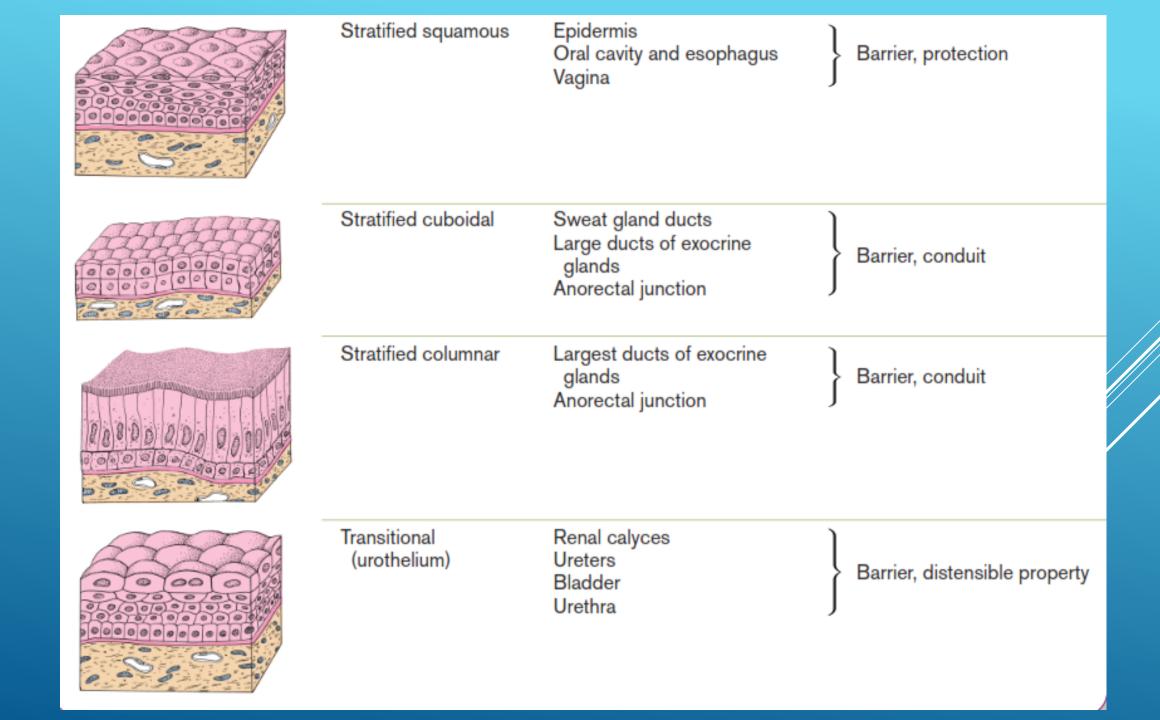


FIGURE 2.6 Pseudostratified columnar ciliated epithelium: respiratory passages—trachea. Stain: hematoxylin and eosin. High magnification.



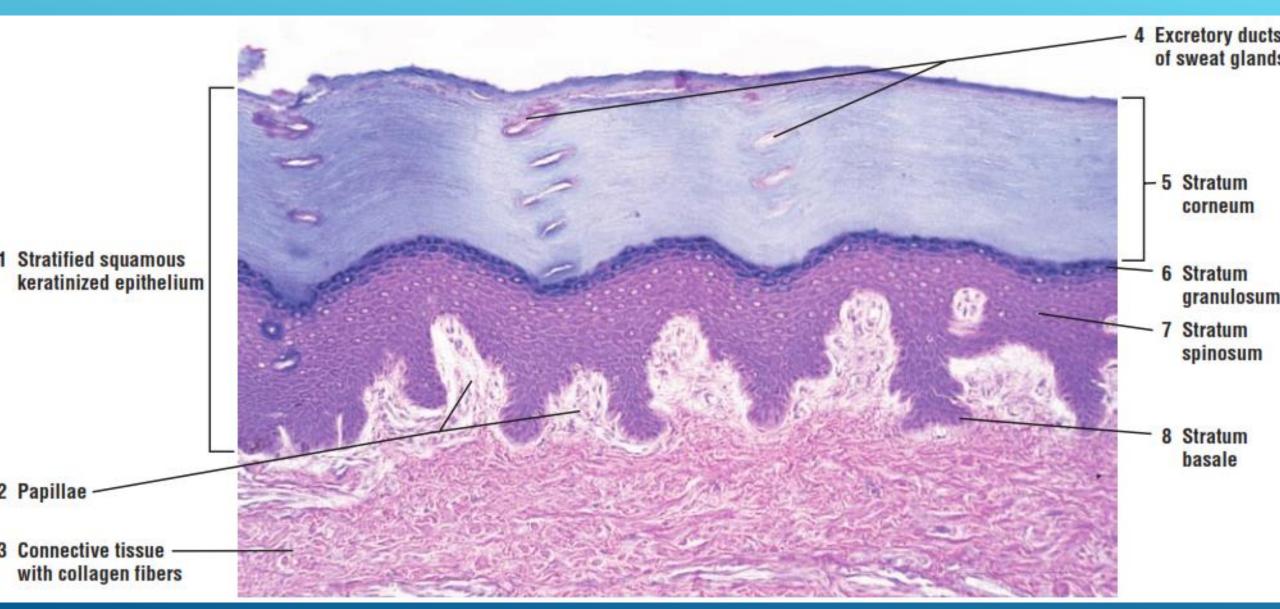
Vas deferens

Trachea & upper respiratory

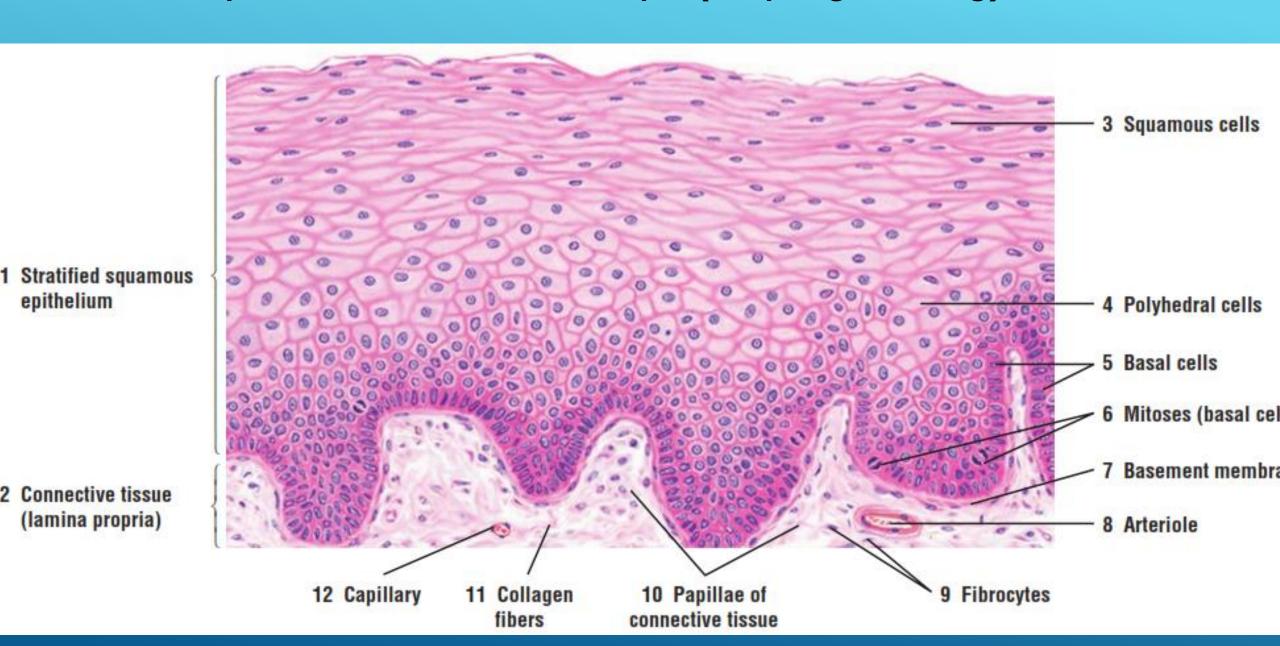


SKIN

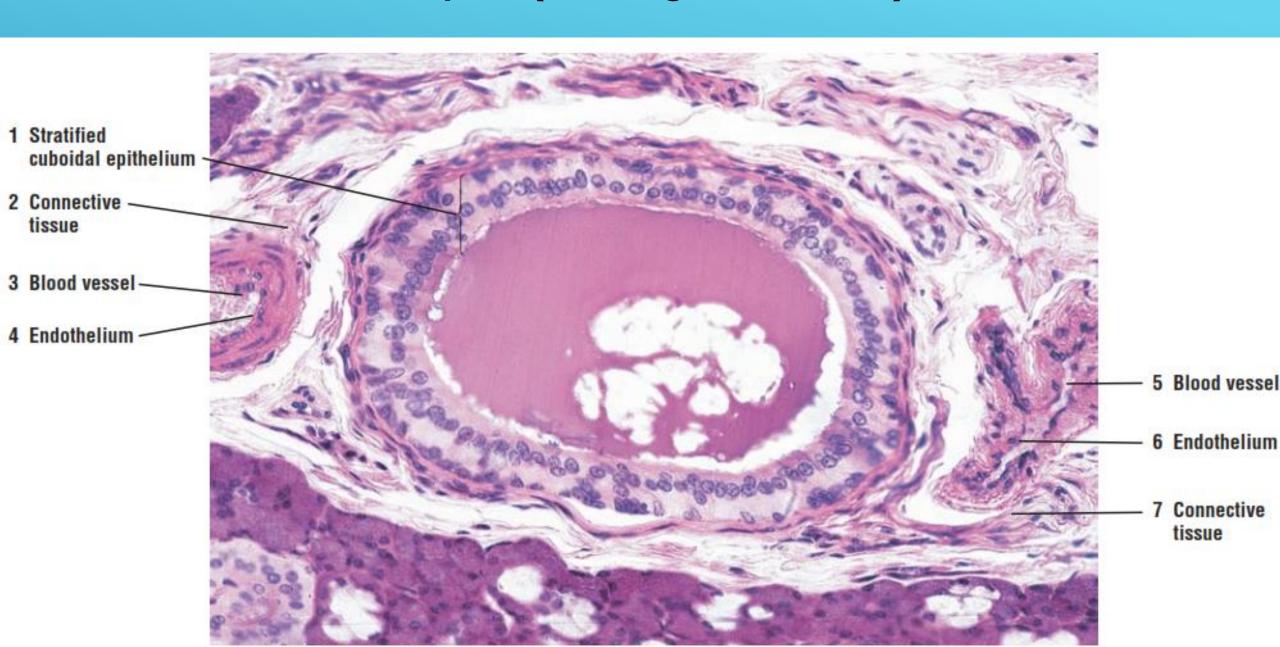
Stratified Squamous keratinized Epith. (epidermis)



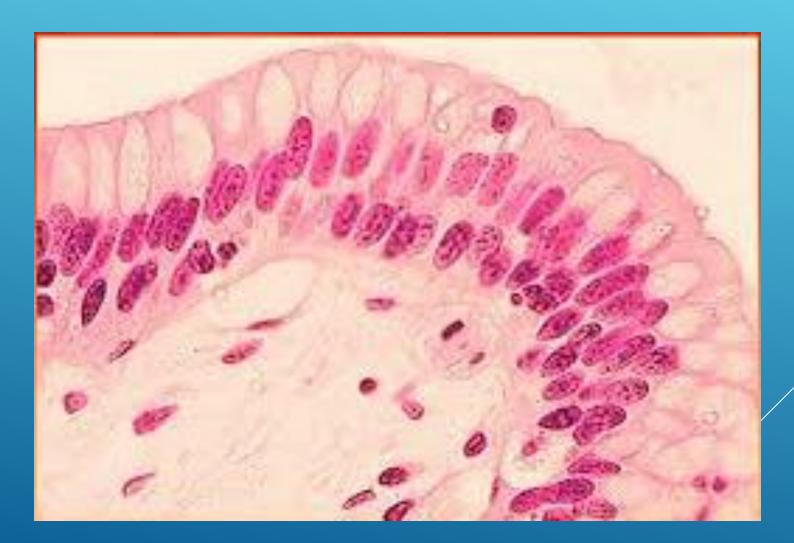
> Stratified squamous non-keratinized epith(esophageal lining).



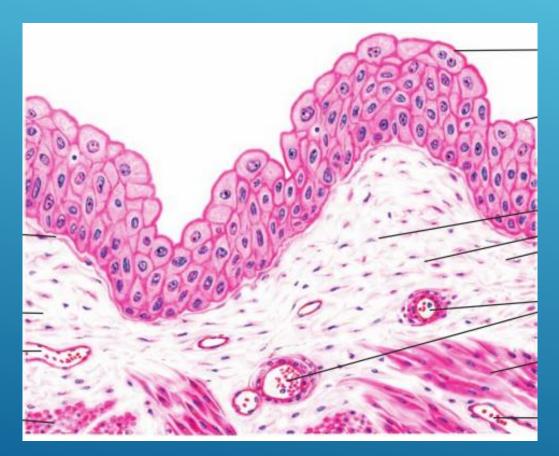
Stratified cuboidal epith. (sweat glands ducts)

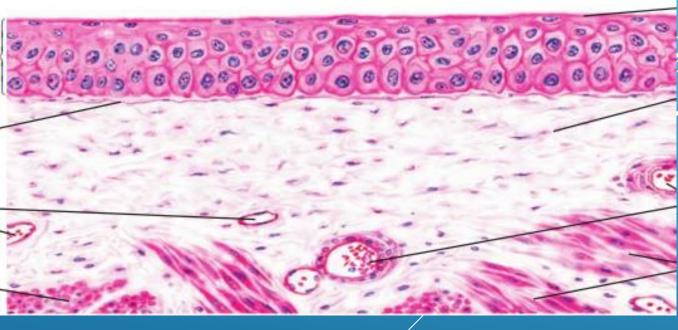


 Stratified columnar epith. Ducts of exocrine glands (not corneal epithelium)



• Transitional epith. (urothelium)





Unstreched

stretched

THANK YOU