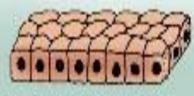


Stratified epithelium:

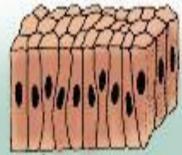
Types of Epithelium



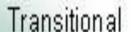
Simple squamous

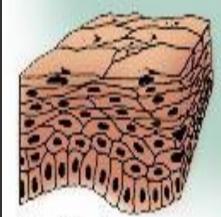


Simple cuboidal

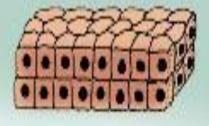


Simple columnar

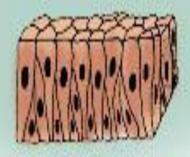




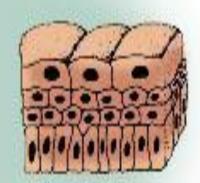
Stratified squamous



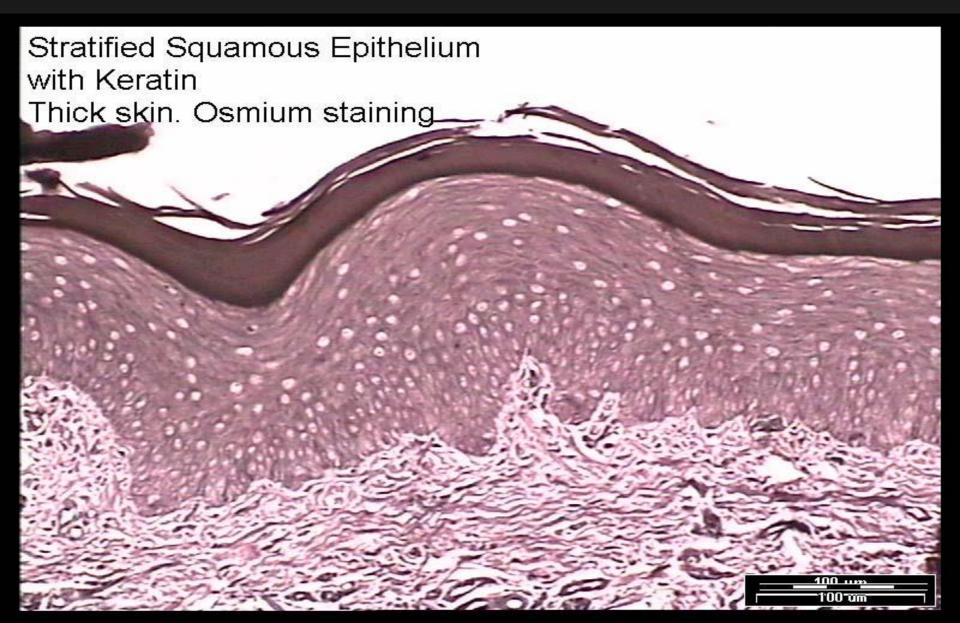
Stratified cuboidal



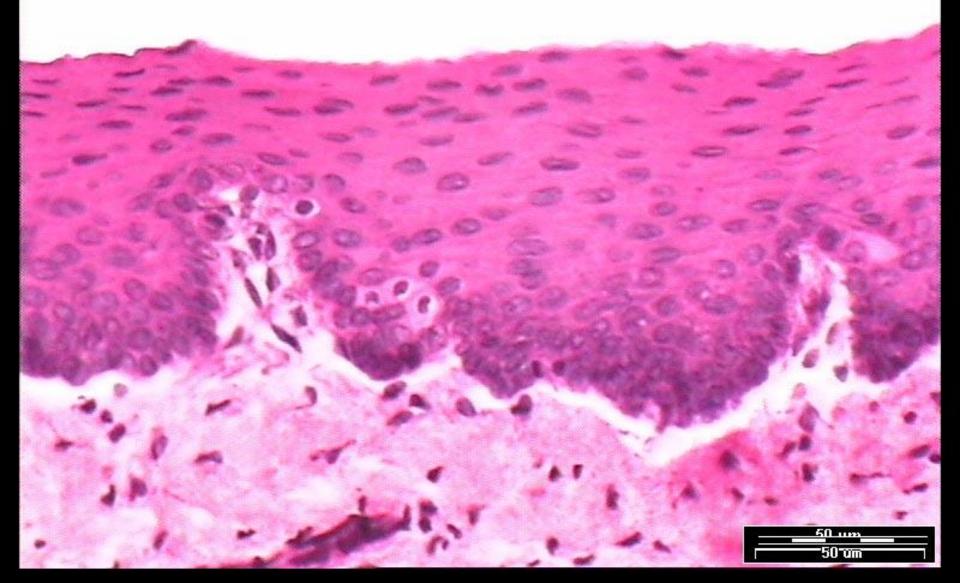
Pseudostratified columnar



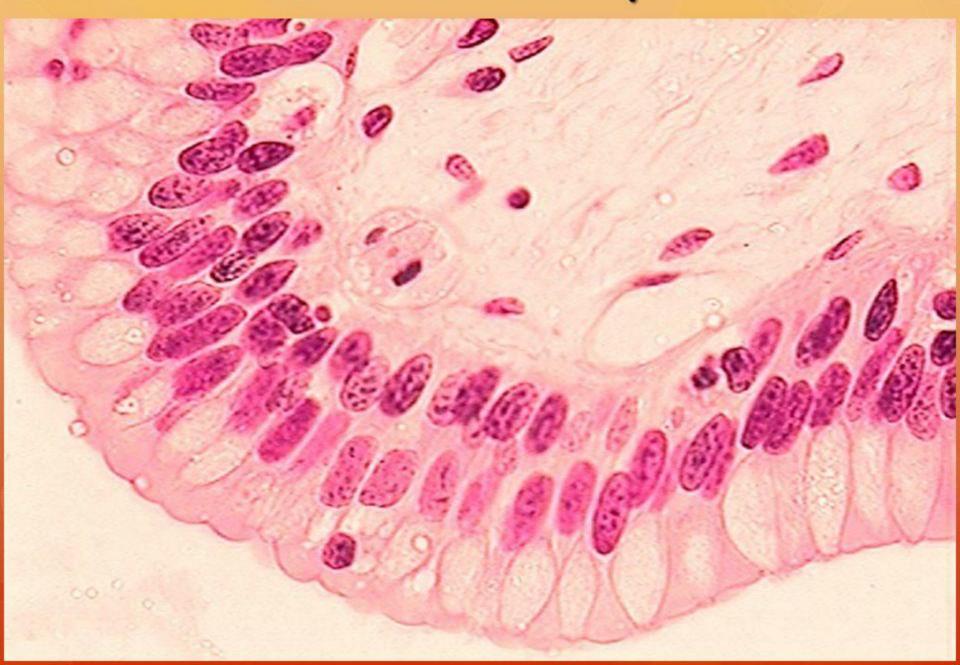
Stratified epithelium:



Stratified Squamous Epithelium Tongue



Stratified Columnar Epithelium



transitional epithelium:

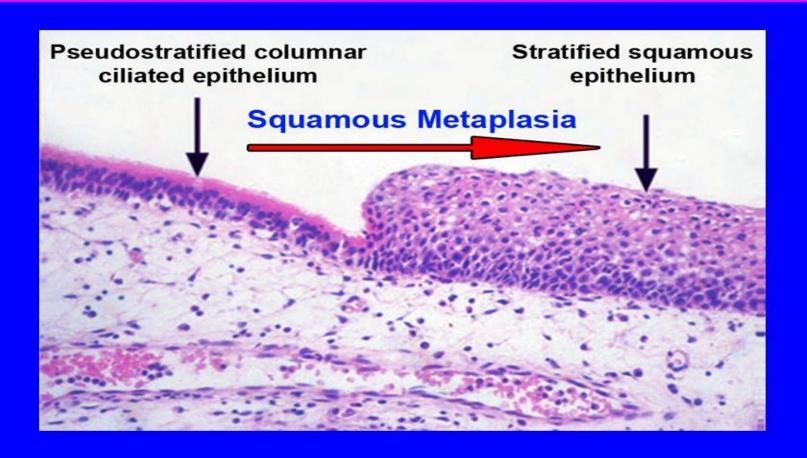


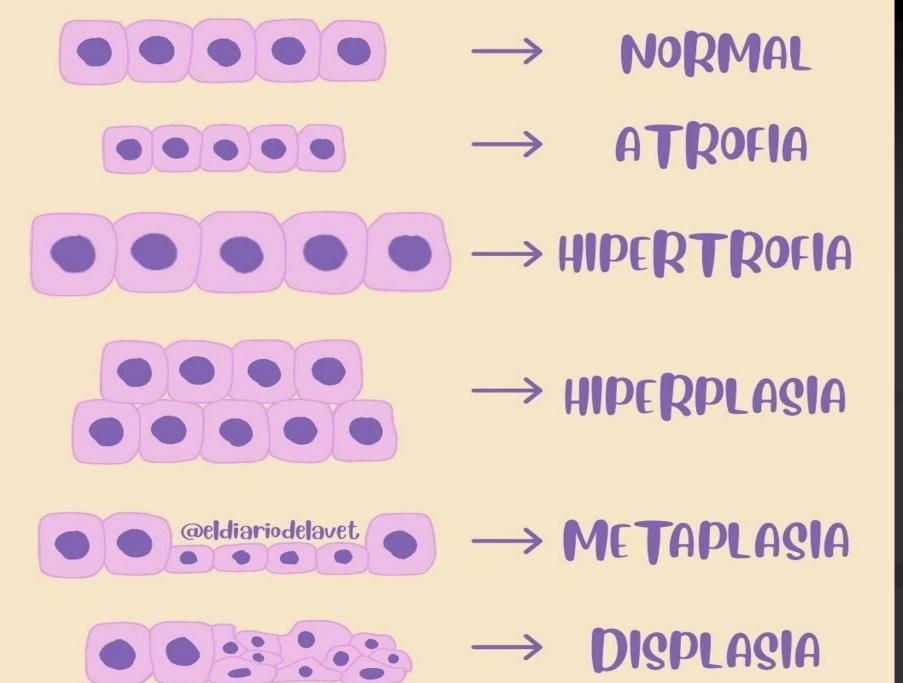
Medical notes:

In cases of chronic vitamin A deficiency, epithelial tissues found in bronchi and urinary bladder may gradually be replaced by stratified squamous epithelium due to decrease in mucus-secreting elements, and keratinization.

Clinical Correlation: Epithelial Metaplasia

Squamous Metaplasia





Cells	Location	Function
Simple squamous epithelium	Air sacs of lungs and the lining of the heart, blood vessels, and lymphatic vessels	Allows materials to pass through by diffusion and filtration, and secretes lubricating substance
Simple cuboidal epithelium	In ducts and secretory portions of small glands and in kidney tubules	Secretes and absorbs
Simple columnar epithelium	Ciliated tissues are in bronchi, uterine tubes, and uterus; smooth (nonciliated tissues) are in the digestive tract, bladder	Absorbs; it also secretes mucous and enzymes
Pseudostratified columnar epithelium	Ciliated tissue lines the trachea and much of the upper respiratory tract	Secretes mucus; ciliated tissue moves mucus
Stratified squamous epithelium	Lines the esophagus, mouth, and vagina	Protects against abrasion
Stratified cuboidal epithelium	Sweat glands, salivary glands, and the mammary glands	Protective tissue

Stratified columnar epithelium	The male urethra and the ducts of some glands	Secretes and protects
Transitional epithelium	Lines the bladder, uretha, and the ureters	Allows the urinary organs to expand and stretch

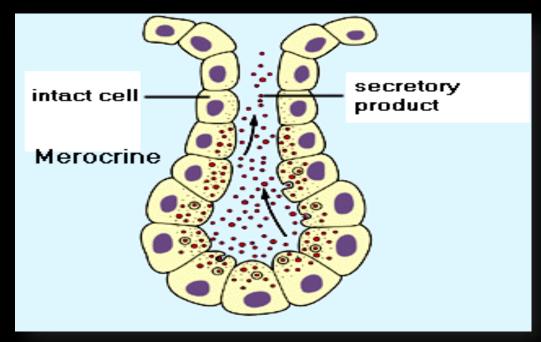
Glandular epithelium:

Glands are classified into three major groups on the basis of the method of distribution of their secretory products:

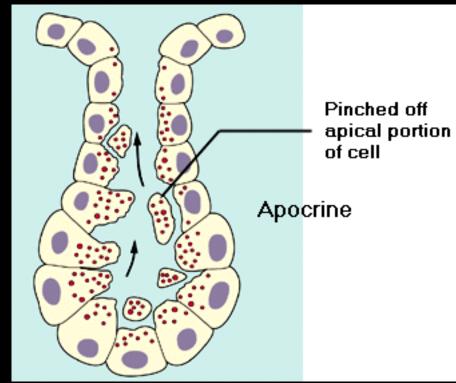
exocrine glands endocrine glands mixed glands

Exocrine glands: Classification of exocrine glands:

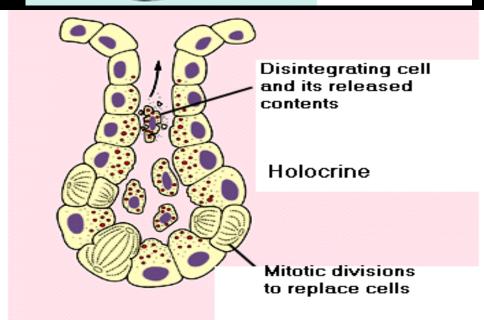
- 1. Exocrine Glands Classified by Mechanisms of Secretion:
- Exocrine glands classified according to the mode or way in which the secretory products leave the cell into:
- (a) Merocrine (or eccrine) secretion:

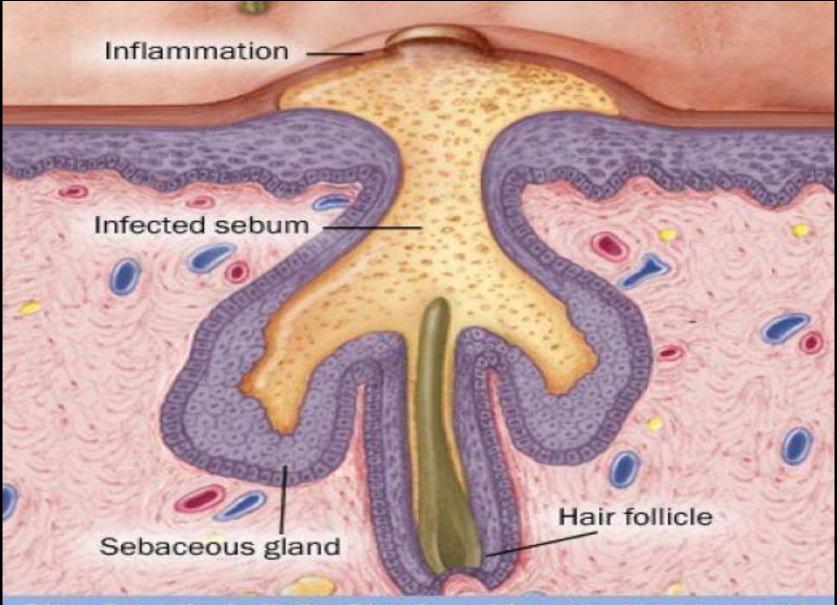


(b) Apocrine secretion:



(c) Holocrine secretion:





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Thank you