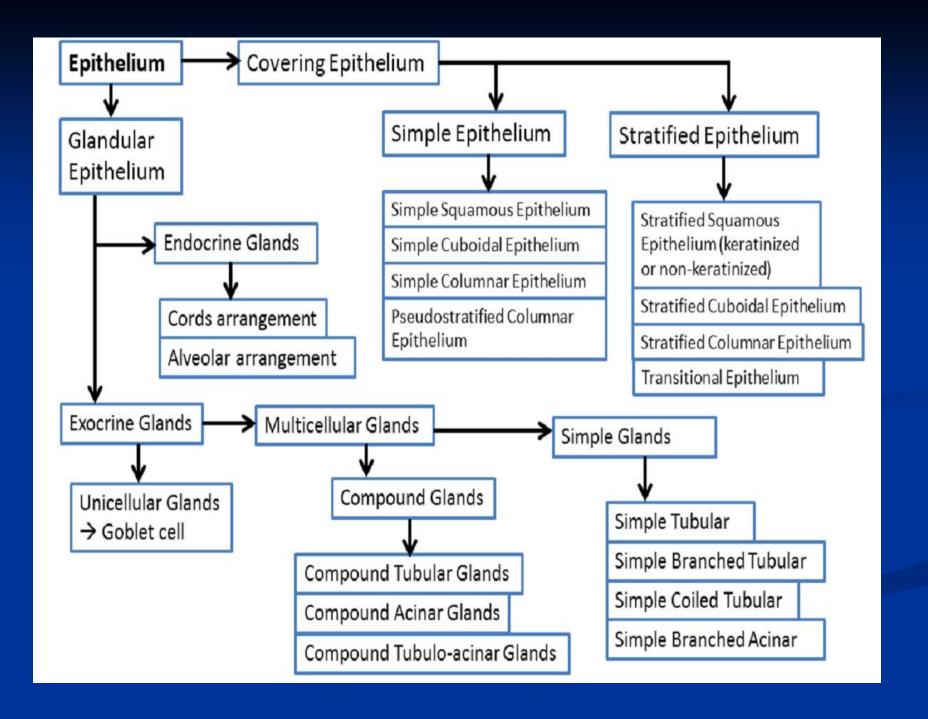
Biology

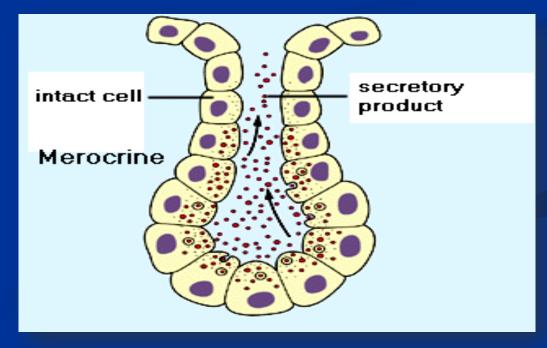


Glandular epithelium:

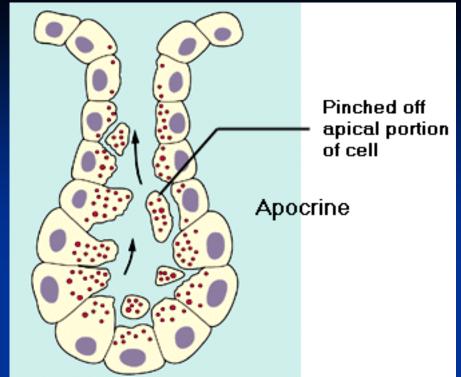
- Glands are classified into three major groups on the basis of the method of distribution of their secretory products:
- exocrine glands
- endocrine glands
- mixed glands

Exocrine glands: Classification of exocrine glands:

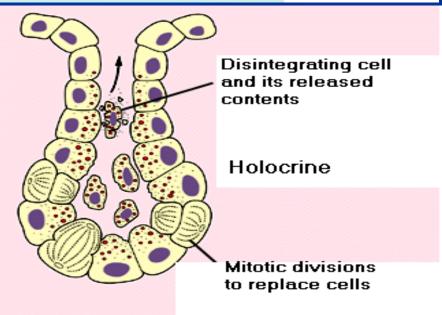
- 1. Exocrine Glands Classified by Mechanisms of Secretion:
- Exocrine glands classified according to the mode or way in which the secretory products leave the cell into:
- (a) Merocrine (or eccrine) secretion:



(b) Apocrine secretion:

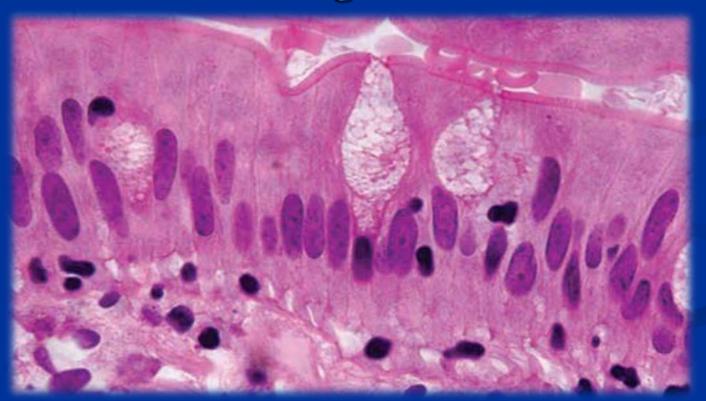


(c) Holocrine secretion:



2. Exocrine Glands Classified by Morphology:
Exocrine glands are classified according to the no. of
cells into two groups:
unicellular glands
multicellular glands.

Unicellular exocrine glands:



Multicellular exocrine glands:

Multicellular exocrine glands are classified according to the organization of their duct components into simple or compound glands.

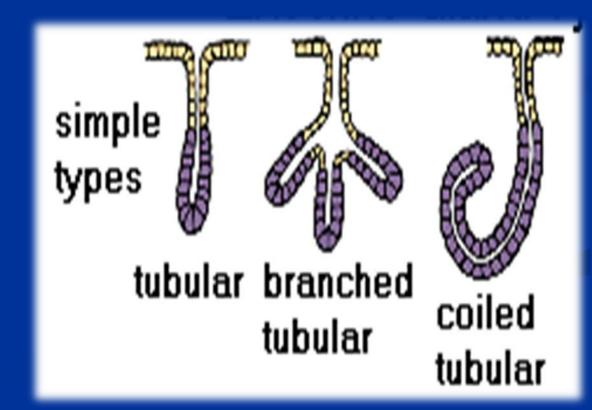
- Multicellular exocrine glands are classified according to the organization of their secretory components into straight and branched and coiled:
- Multicellular exocrine glands are classified according to the shape of secretory units in both simple and compound glands into: tubular

alveolar (acinar)

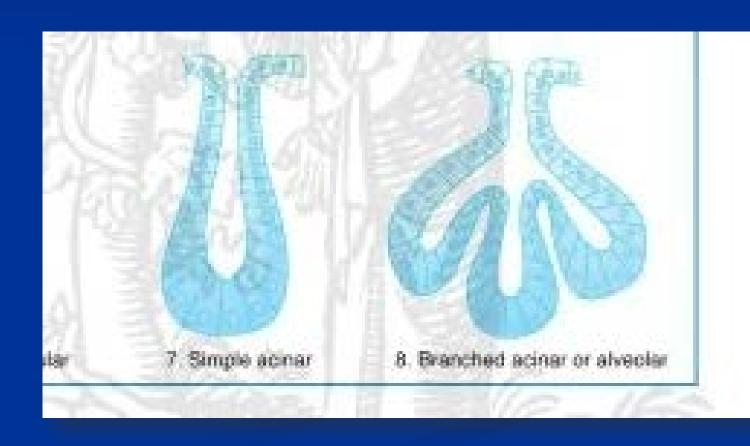
tubulo-acinar (alveolar)

1. simple tubular glands:

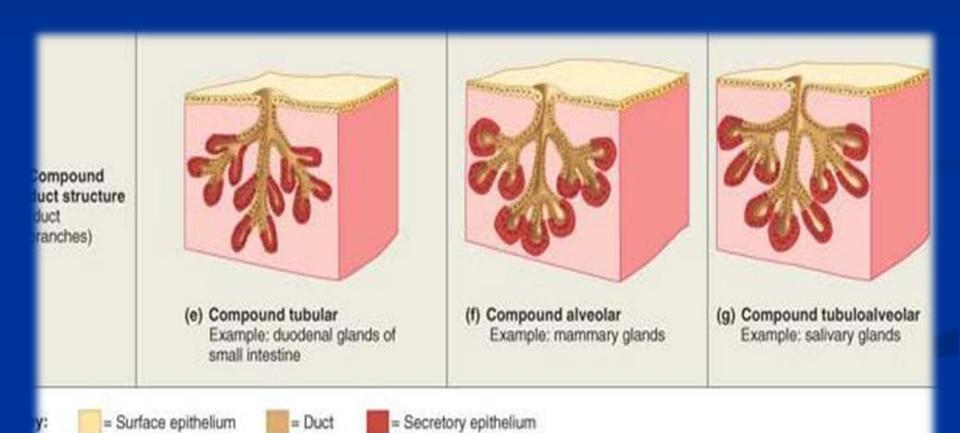
- a. simple straight tubular glands:
- b. simple branched tubular glands:
- c. simple coiled tubular glands:



- 2. simple acinar glands (simple alveolar)
- a. simple straight acinar glands:
- b. simple branched acinar glands:



- 2. compound multicellular exocrine glands:
- a. compound tubular glands:
- b. b. compound acinar or alveolar glands:
- c. c. compound tubuloacinar (tubuloalveolar):



· Classification of	glandular ef.2-	
according to merpholog	142-	
according to marphalog	77	
@ multi cellulor 1- class	^ \	penc
Dorganszahin f	Oorganization file	Oshap
the duct system	secretary postion	Secret
Oscuple	@ strenght	04
D compound	@ branched	Q a
		0.

@ coiled

shape of the secretary postion @ rubulow @ account

@tubuloaloedlor Simple Straight tribular

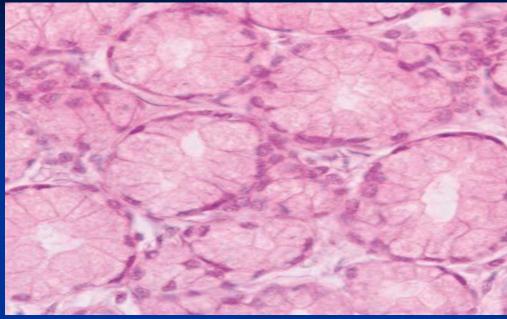
Simple branched tribular

Simple coiled tribular / Simple striaght acinar V Simple branched actuar

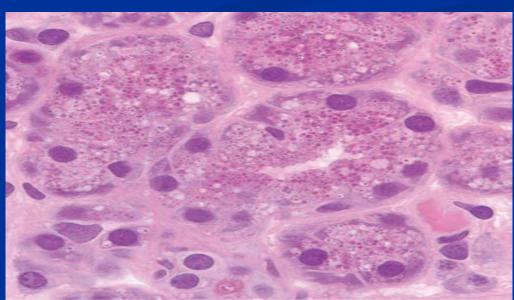
(D) Compound (only classified according to the shape of secretary part) compound Compound tupular campound acinar (alucolar) tubulo al vea-(Ambuloactnar)

3. Exocrine Glands Classified by Product:

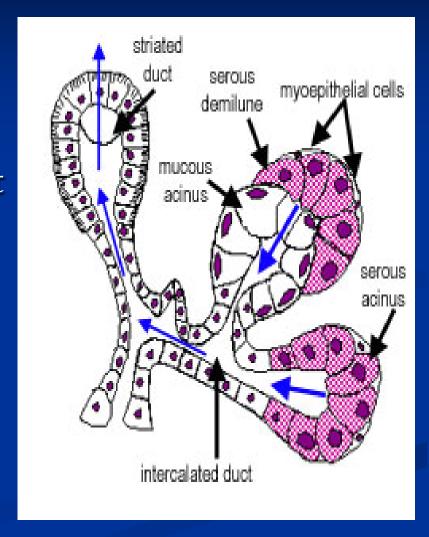
a. Mucous cells:



b. Serous cells:



- 3. Mixed: These glands have both serous and mucous cells.
- The mucous cells ends are capped by serous cells that secrete between the mucous cells' intercellular space. These serous caps on mucous cells are called serous demilunes.



Endocrine glands:

- polypeptide (or protein)-secreting cells
- steroid-secreting cells.

Epithelial cell renewal: continuously renewing cell populations.

stable cell populations

Most of the cancers of the body are the result of uncontrolled proliferation of epithelial cells.

THANK YOU