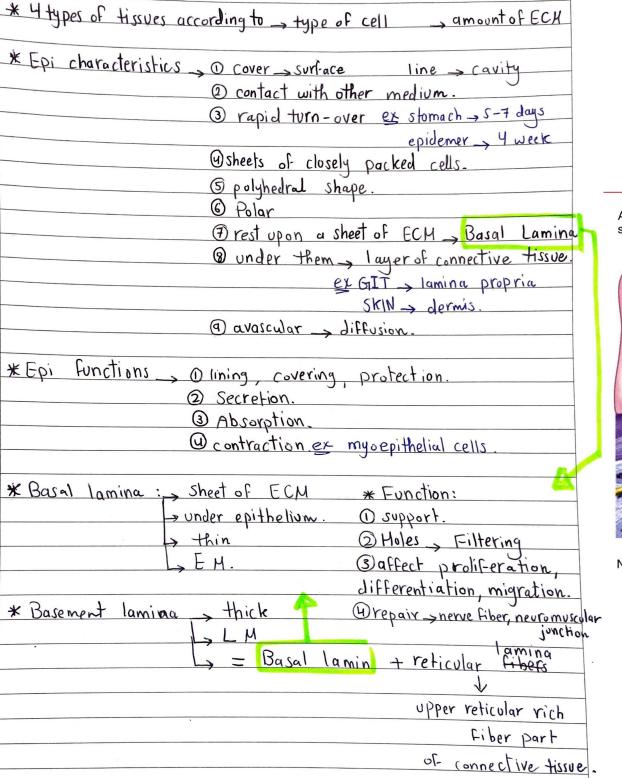


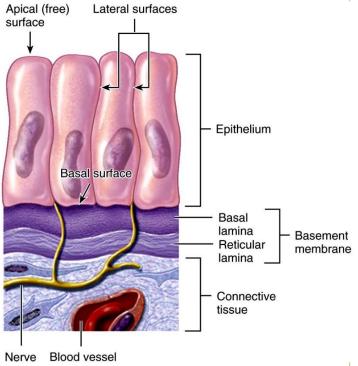
## -Histology-

**Epithelial tissue** 

**Done by: Johainah Taha** 

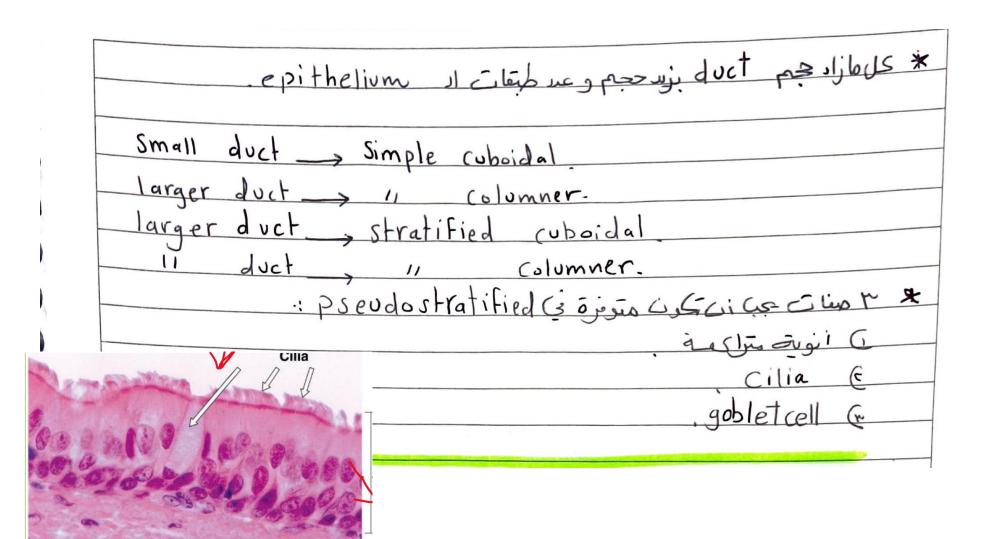


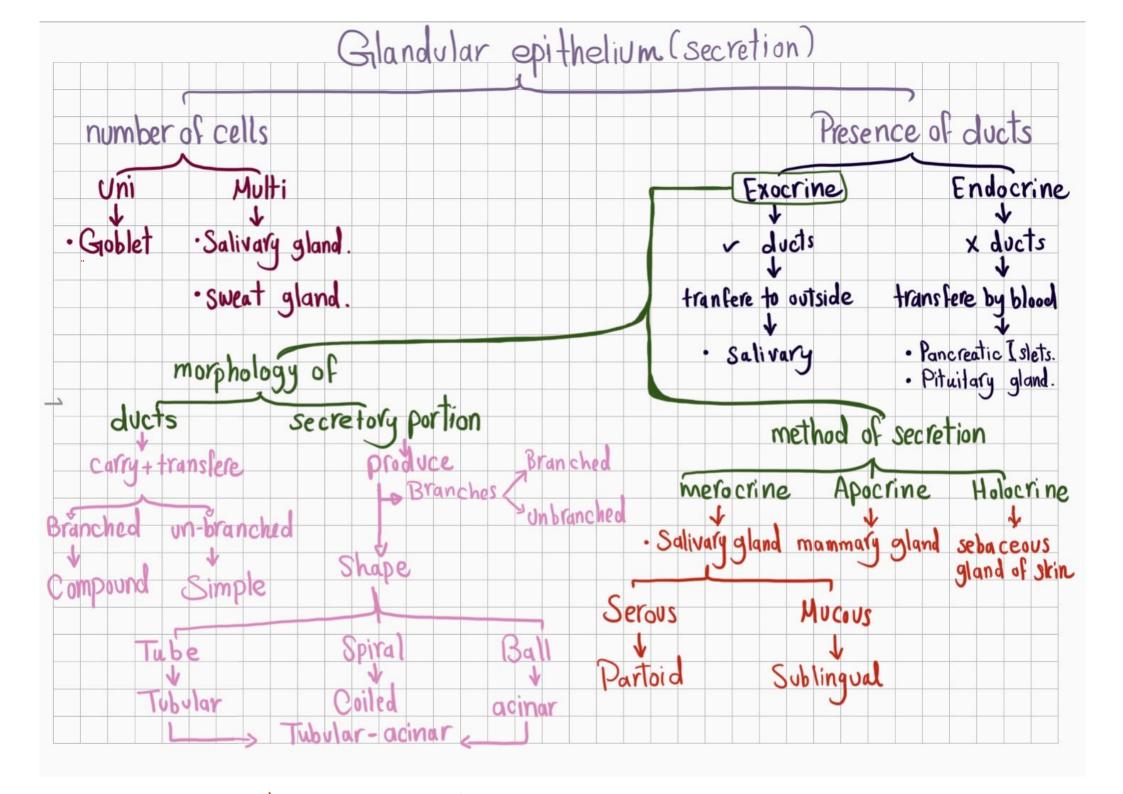


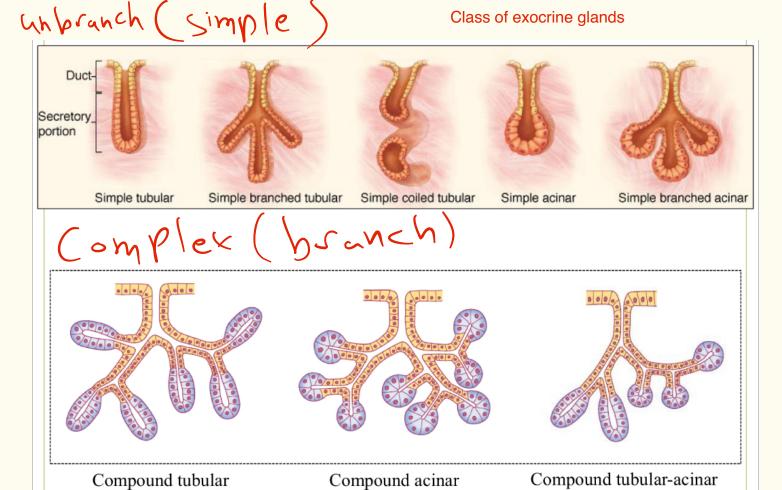


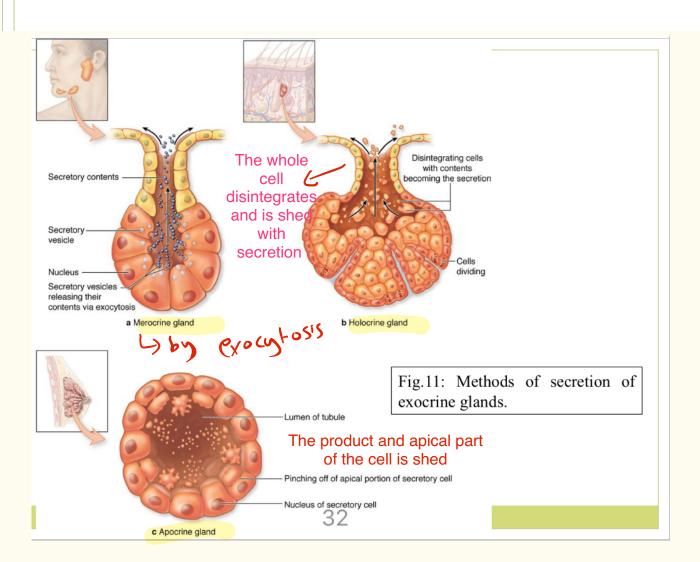
Glandular lining + Covering Squamous = Cuboidal Columnar

	Examples	Function	nucleous shape	Cilia
Simple Squamous	1) capillary -> Endothelium. 2) lining aveoli -> meso thelium. 3) lining body cavities -> pneumocytes	thin cytoplasm > allow passing.  producing lubricating fluids.	Bulging and dark	· · · · · · · · · · · · · · · · · · ·
Simple cuboidal	1) Renal tubules. 3) small ducts 2) covers overy	Ocovering organs.  Sinvolved of active transport	Round	
Simple columner	1) ciliated - uterine tubes. 2) Non-ciliated - GIT, gall bladder	<ul> <li>① Secretion → Stomach</li> <li>② Absorption → Small intestine</li> </ul>		it could be ciliated or not.
Stratified squamous Keratinized	Skin -> Epidermis.	1) Protection 2) Prevent water loss	Flat	* * * * * * * * * * * * * * * * * * * *
Stratified squamous non-keratinized	1) mouth, esophagus, anal canal. 2) vagina.	1) Protection 2) Secretion (water loss)	Flat	· · · · · · · · · · · · · · · · · · ·
stratified cuboidal	large excretory ducts of salivary and sweat glands.	1) Protection.	Round	
stratified columner	Conjuctiva	O Protection.		
Transitional Urothelium	Oureters. 3 renal calyces.		* Dome → empty bladder *Flat → Full bladder	
Pseudostratified Respiratory Epithelium	Otrachea  Dobranchi  nasal cavity	① Protection. ② Secretion. ③ Cilia → remove particles from airway passage		



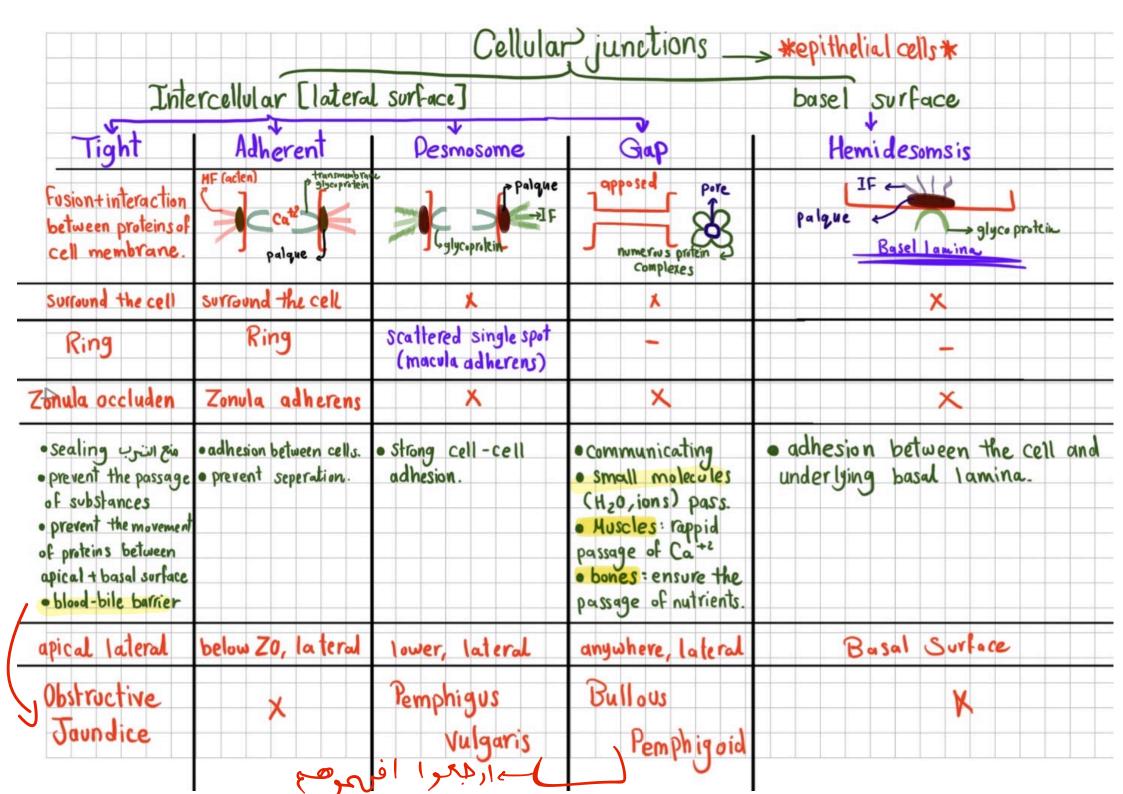






	Serous	Mucous
Shape	Pyramidal	pyramidal
nucleus	central + round	compressed in basal region
Because		large mucine-containing granules inapical region
Basal region	basophilic	ba so philic
because	1 RER+ribosomes	1 RER
Applical region	acid ophilic	-
because	Secretory glands	
Example	Partoid salivary gland	Sublingual Salivary gland
Others		content of granule dissupeare in preparation

* Goblet cell - Unicellular + Exercise
sin digestive + respiratory glands  between pseudo
La between pseudo
* myoepithelial cells , between , secretory cells + basal lamina
associated associated with glandular epithelium.
glandular La contractile
* polarity: > various regions
> Specialised structures
> different functions
1 2 Kani
* 3 regions apical > Facing lumen.
- lateral
basal - on the basal



	* Tight junction consist of several strands of fusion.			
	* Hepatocytes synthesis and secretion of bile small intercellular			
	obstruction to the flow of bile - accomulate - 1 pressure			
	. Foundice _ bile pass to _ rupture tight < sinusoid junctions			
	* Specialized of the basel surface:			
	D Hemidesosome anchoring basal lamina			
	2) Striction + infolding -> 1 surface area			
	3) transporters + pumps			
	Y) Receptors Specialised of Aprical Surface			
Finger like cytoplasmic	microvilli Stereocilia Cilia			
projection	- absorptive . absorptive . elongated small intestine epi didymis + ductus deferens + . motile			
	· actinfilaments haircell of inner ear. · trachea · motile. · longer than MV - rythmic			
	<ul> <li>Shortslong.</li> <li>LM &gt; brush border.</li> <li>branched.</li> <li>and forward.</li> </ul>			
	· 1 surface area · 1 surface area · micro tubules			
	Flagella: longer than cilia + rotational + in sperm			
	Primary Ciliary dyskinesia:			

Good luck

* Tight junction	consist of several stran	ds of fusion.
* Hepatocytes ->	synthesis and secretion of	bile -> small intercellular
obstruction to H	he flow of bile - accom	nulate > 1 pressure
, Jaundice	bile pass to sinusoid	rupture tight <
* Specialized o	the basel surface:	
) Hemidesosome	anchoring basal lamite	
2) Striction +	infolding -> 1 surface	area
3) transporters	+ Pumps	
4) Receptors Speci	alised of Apical sur	face
microvilli	Stereocilia	Cilia
₩1013VIII	<u> </u>	1
absorptive.	·absorptive	· elongated.
small intestine.	· epi didymis + ductos def	
actin filaments	haircell of inner ear.	·trachea
· motile.	·longer than MV	-rythmic
· short, long.	· less motile.	· backward
· LM > brush border.	· branched.	and forward.
. ↑ surface area	. A surface area	· microtubules
Flagella: longer	than cilia + rotational	
Primary Ciliary o	lyskinesia;	
rrepeated infect	ion /male/female	infertility.

Good luck