

* lips

skin = Keratinized stratified squamous epithelium

• mucous membrane \Rightarrow Internal Surface =

non-kt - st - sq - epi

lamina propria $\left\{ \begin{matrix} \text{gland} \\ \text{lymph gland} \end{matrix} \right.$

* tongue \Rightarrow Rough Surface due to papillae.

4 types

circumvallate

• contain Von Ebner's gland \rightarrow serous secretion
• taste buds on lateral sides

foliate

• Oral Cancer

fungiform

- taste buds on superior surface
- present among filiform.

filiform

• no taste buds

filiform \leftarrow non-keratinized papillae

st - sq - epi

Keratinized

no single cells
taste buds

* parotid Salivary gland: 100% Serous

- lining of main duct of Salivary gland:
non-kt - strat - sq - epi.

- acini: pure Serous

- striated duets \leftrightarrow secretory
↳ Ion transporting Cell, ↑ Mitochondria

* Submandibular Salivary gland:

↳ Mixed serous + mucous
crescent of = serous demilunes
Gianuzzi

* Sublingual Salivary gland:

- Mucous acini 95%.

* Esophagus:

Musculosa \Rightarrow IC + OL = outer longitudinal
inner circular

① upper $\frac{1}{3}$ \Rightarrow striated Muscle \Leftarrow J-Lev iv

② Middle $\frac{1}{3}$ \Rightarrow mixed

③ lower $\frac{1}{3}$ \Rightarrow smooth Muscle

* Stomach (fundic gland): simple columnar
2 types of cell

chief = peptic cell

parietal = oxyntic

جسم حي أجزاء

chief (peptic) cell

- mainly in base of gastric gland

Basophilic

rER

- secrete pepsinogen, Lipase

Zymogen granules

parietal oxyntic

- present mainly in upper half of gland, few in base

Acidophilic

sER

- secrete HCl, intrinsic need to Vit.B₁₂ factor absorption

one secretory granule

goblet Cells

سلسلة نوافذ

stomach → duodenum

* pernicious Anemia → lack of intrinsic factor from (oxyntic = parietal) cell

Muscular

* pylorus : thickened form of 2 layer of muscle.
↳ IC form the pylorus sphincter (IC, GL)

* Brunner's gland appear in duodenum
in submucosa

In **Mucosa** ← gastric gland con.

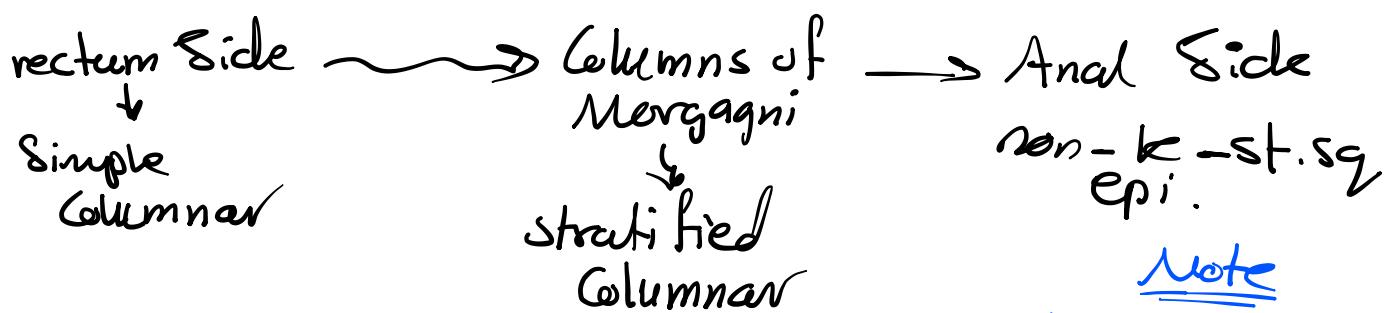
* if the Antibiotic affect GT, the most common epithelium will be affected:

Simple Columnar epithelium.

• Rectum: Simple Columnar, intestinal gland

• Anal: non-k-st-sq-epi

* the Columns of Morgagni mark the recto-anal Junction.



* Duodenum: villi + crypts.

* Colon → no villi, Just Crypts

Contains goblet cell

Note
goblet cell

as - duodenum

Colon موجودة في كل جزء

goblet cell مجاورة لـ gastric gland

Just Mucous secretion cell.

* Ileum: M (microfold) Cells; Antigen

contain lymphoid nodules of **Peyer's patches**

presenting cell

don't secrete intestinal lysozyme.

* Colon - Taenia Gli

⇒ OL break up into 3 longitudinal bands to form Taenia Gli

* appendix : rich in lymphoid follicles

* liver : Contains : Central Vein, cords of liver cells
liver sinusoids.

* Pancreas : Simple Columnar lining
+ Goblet Cell
+ enteroendocrine Cell

↓
Bicarbonate duct
↓
striated duct
↓

* Beta (β) cell of pancreas FO.
- produce insulin.
most numerous cell type.

~~Bile~~ Bile Canaliculi and Bile duct:

they are bounded by the cell membrane of adjacent hepatocyte.

I Done

(J. o.) ~~pasilge~~