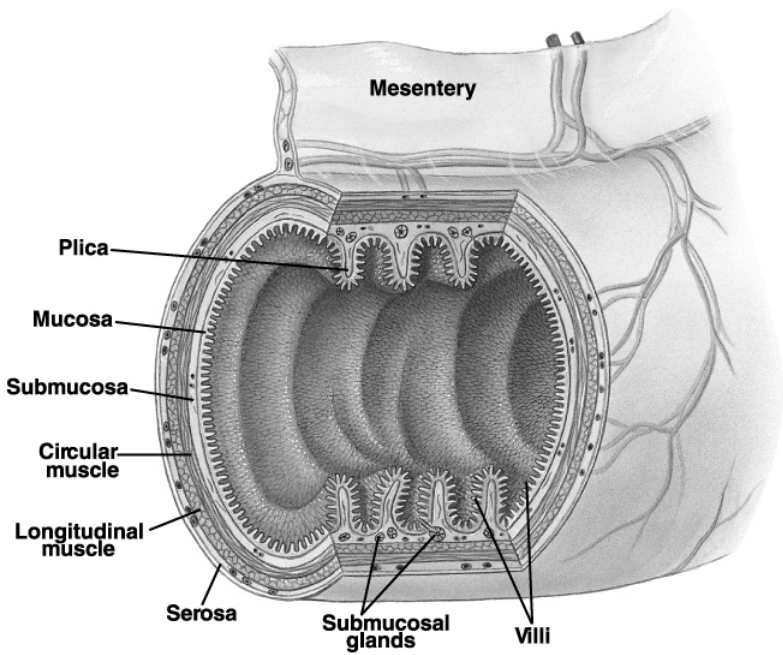
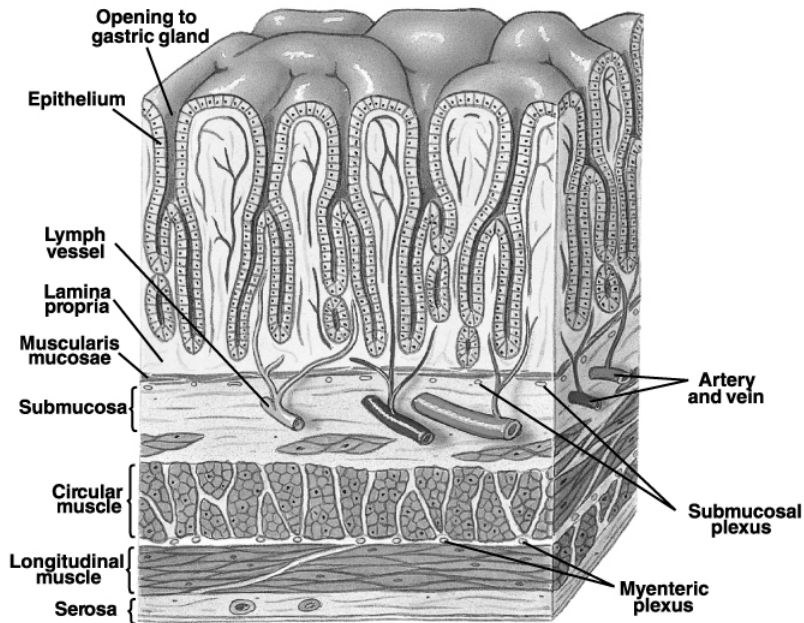
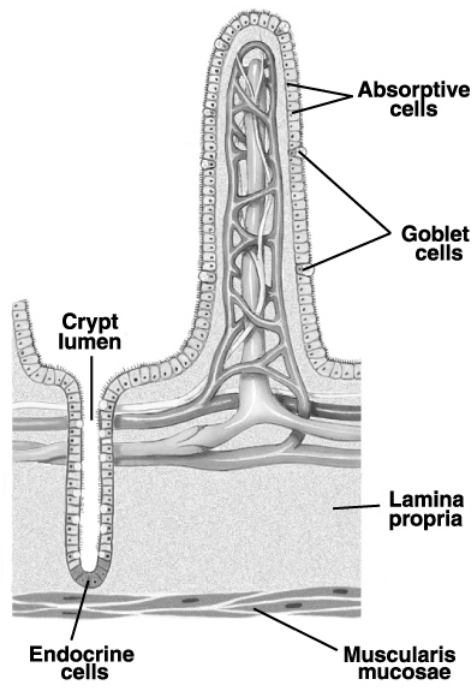
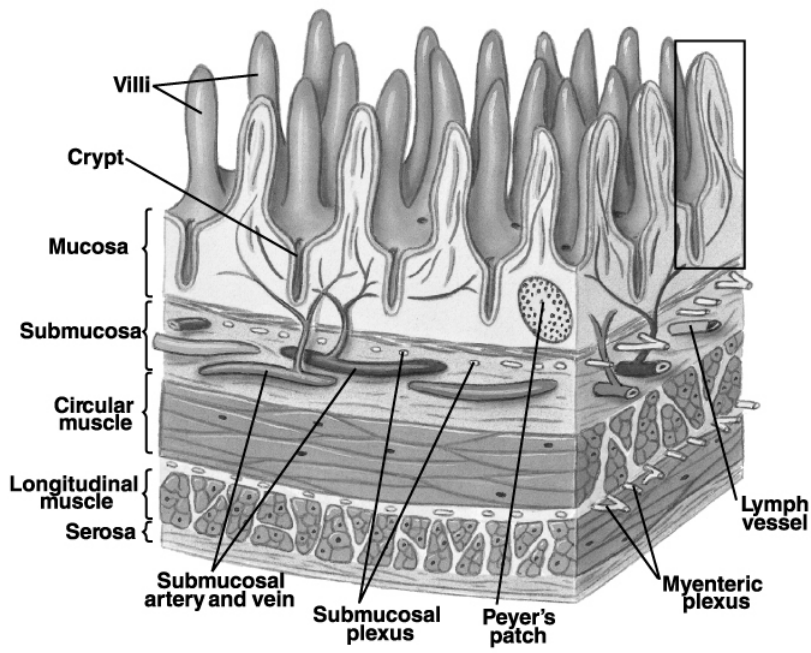
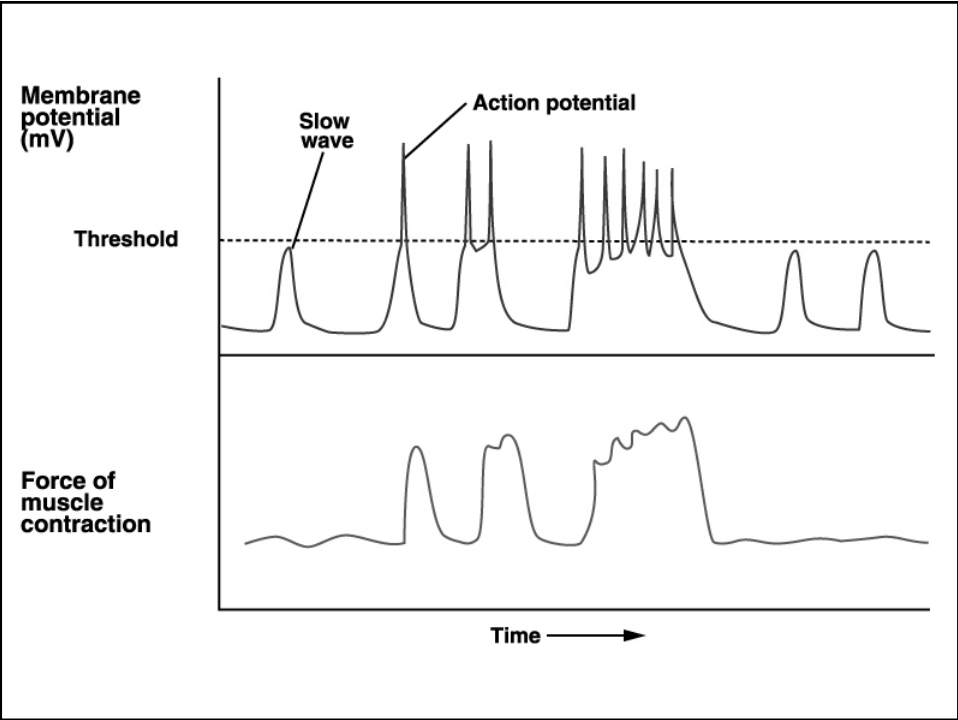
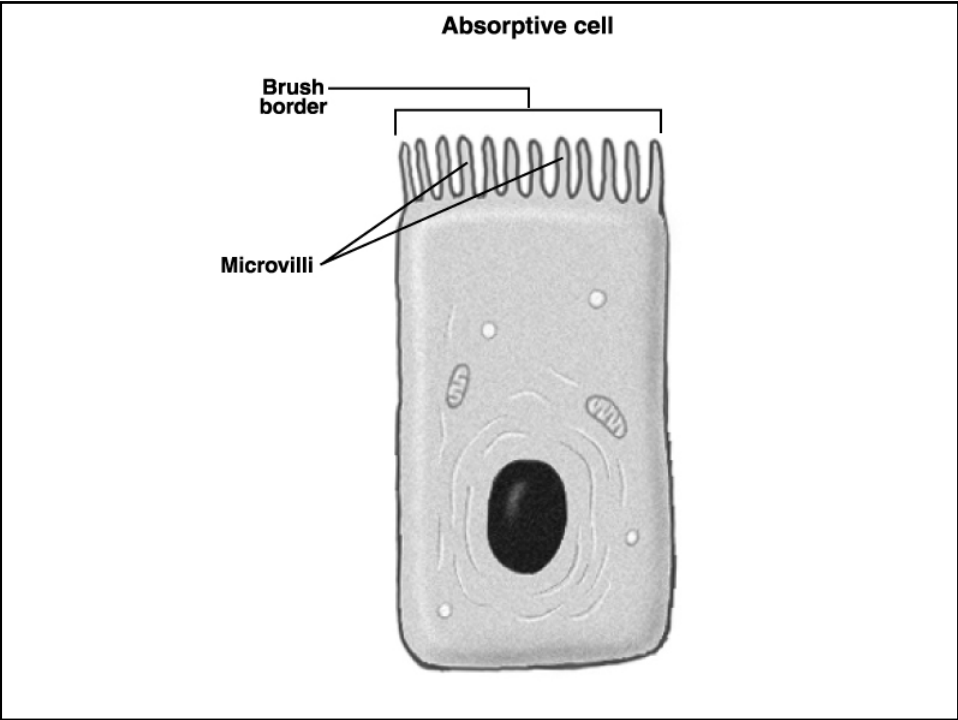


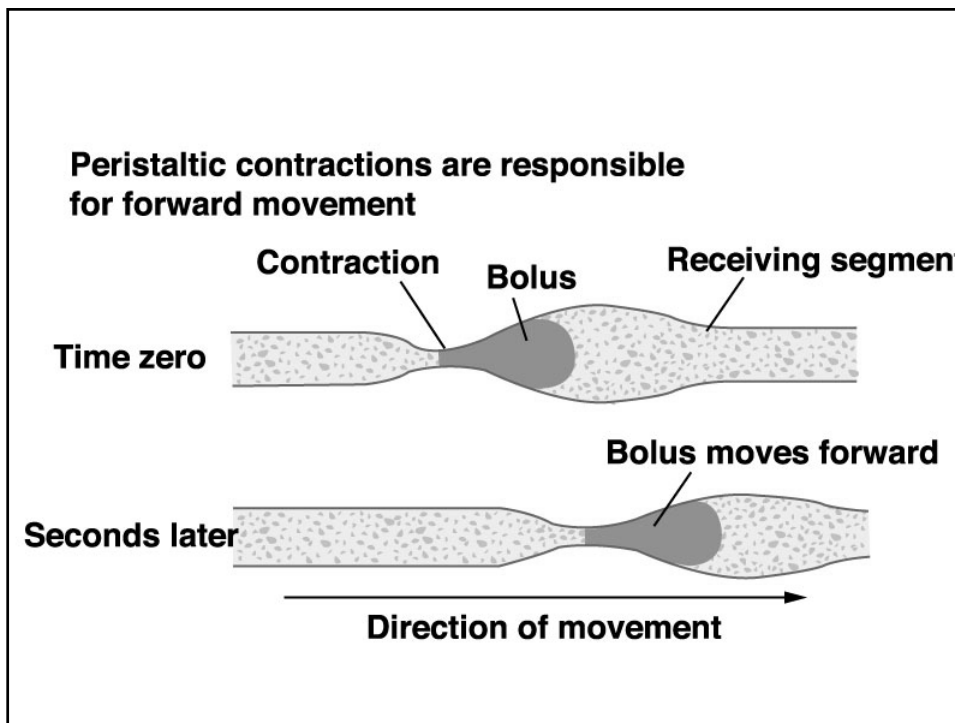
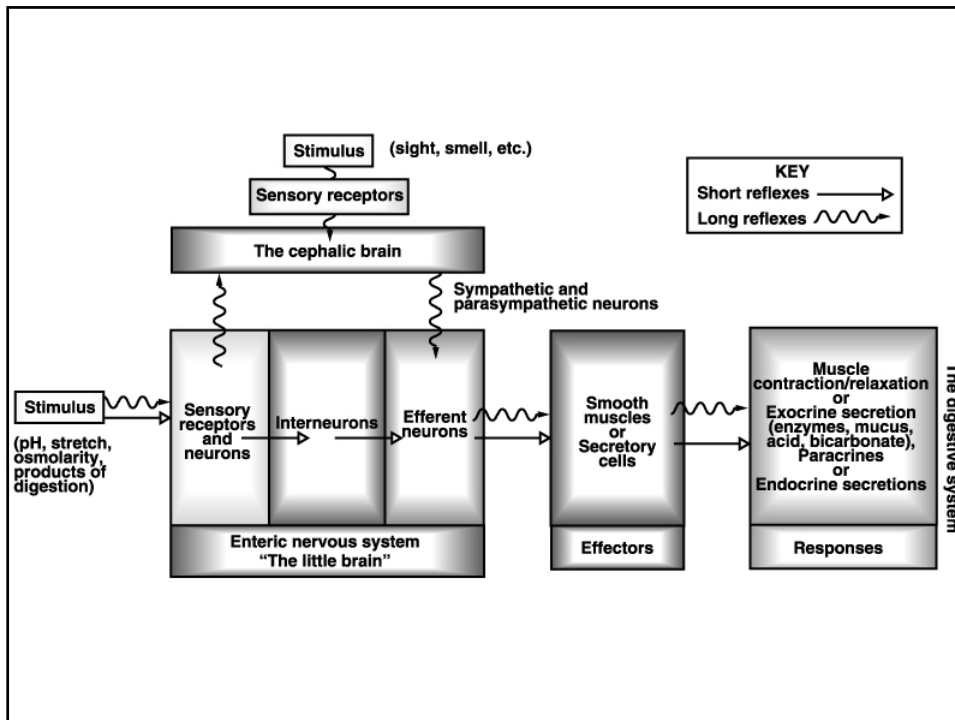
In the stomach, surface area is increased by invaginations called gastric pits.

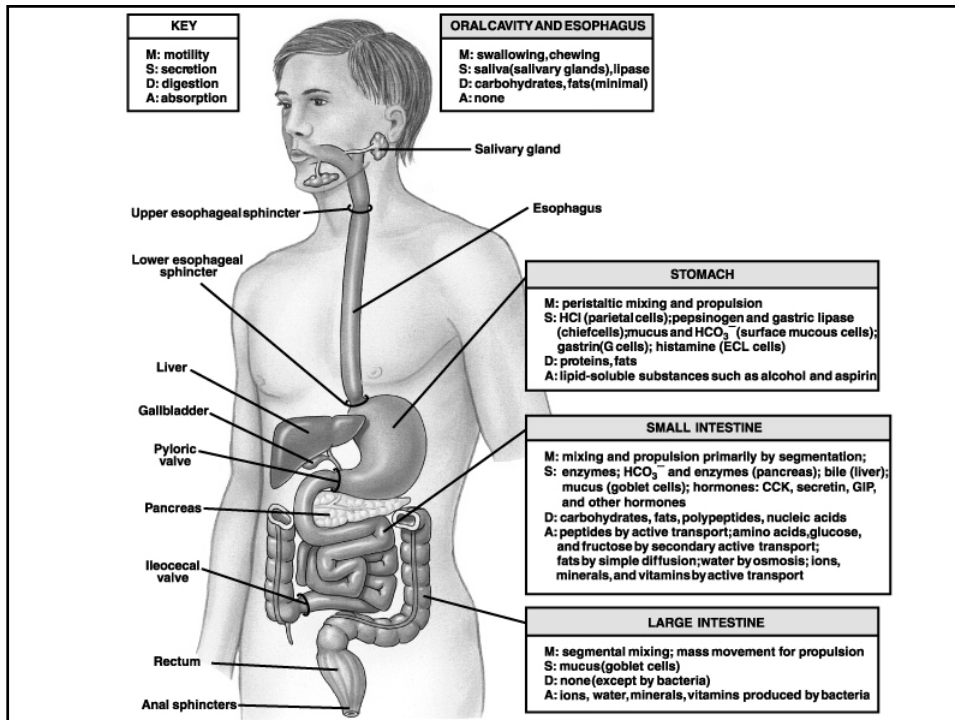
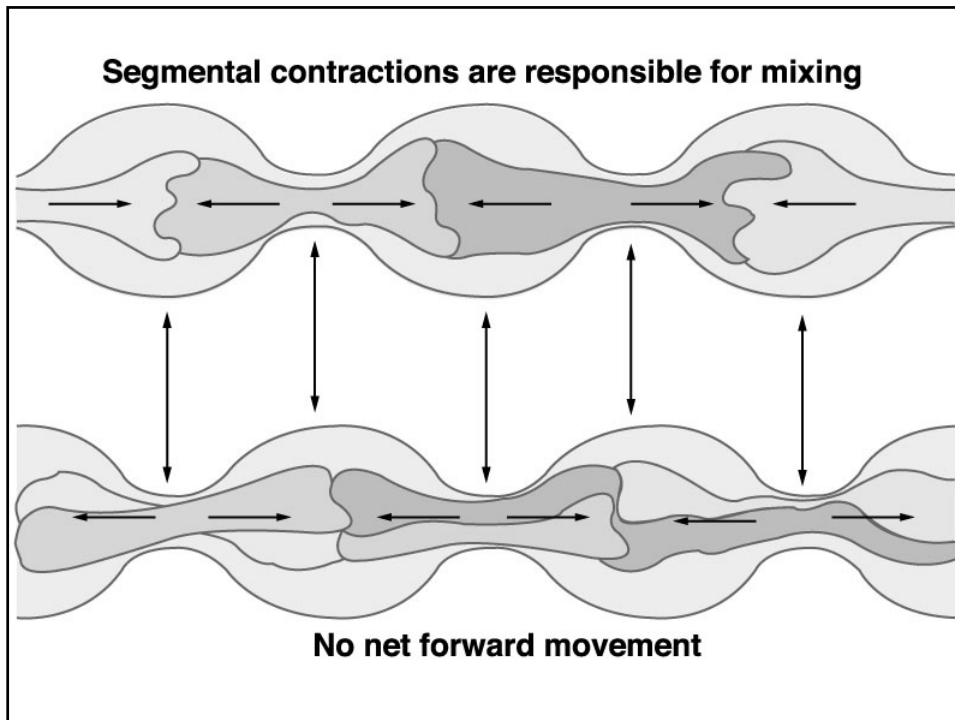


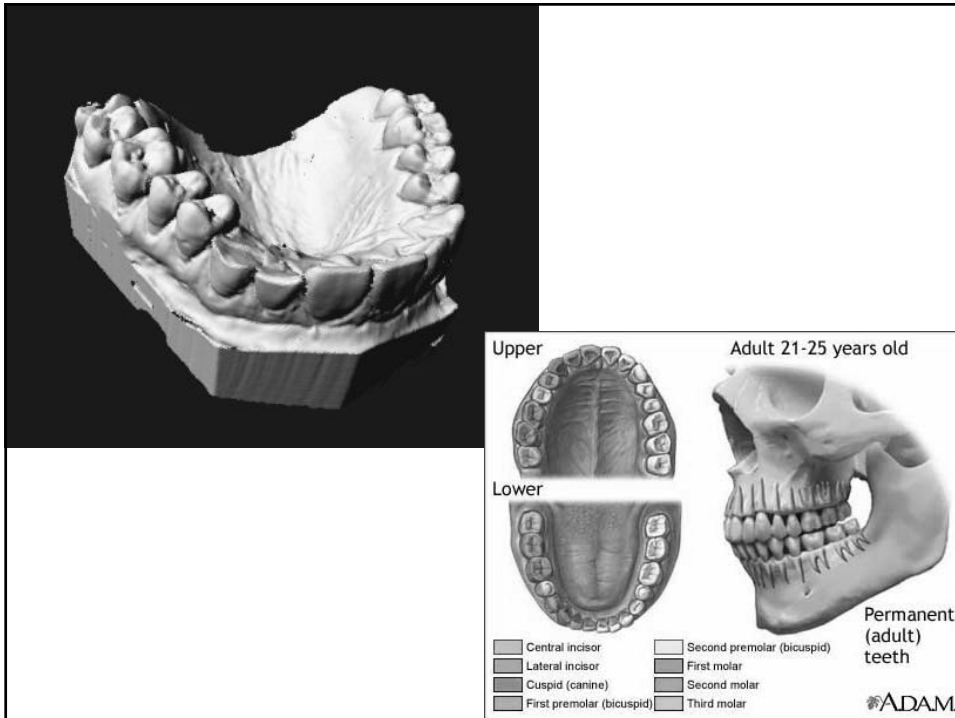
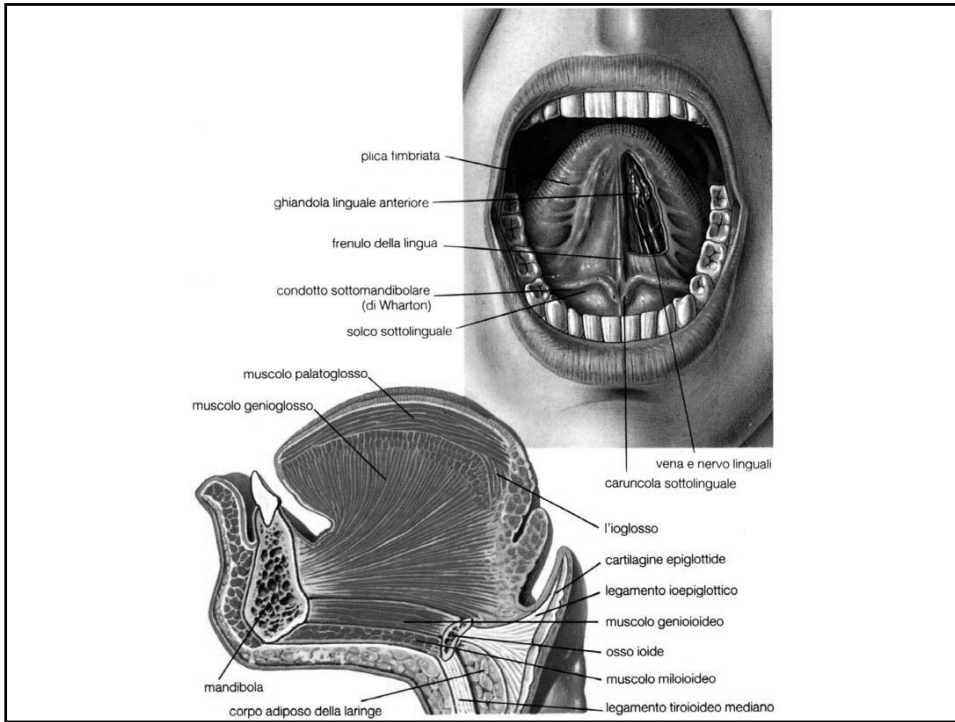
Intestinal surface area is enhanced by finger-like villi.

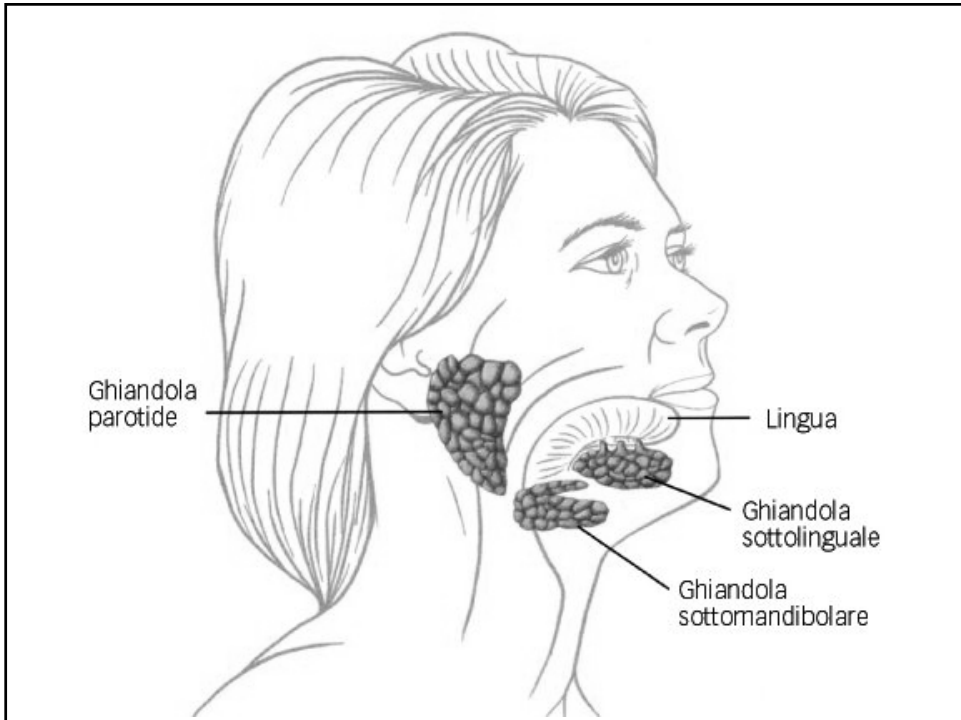
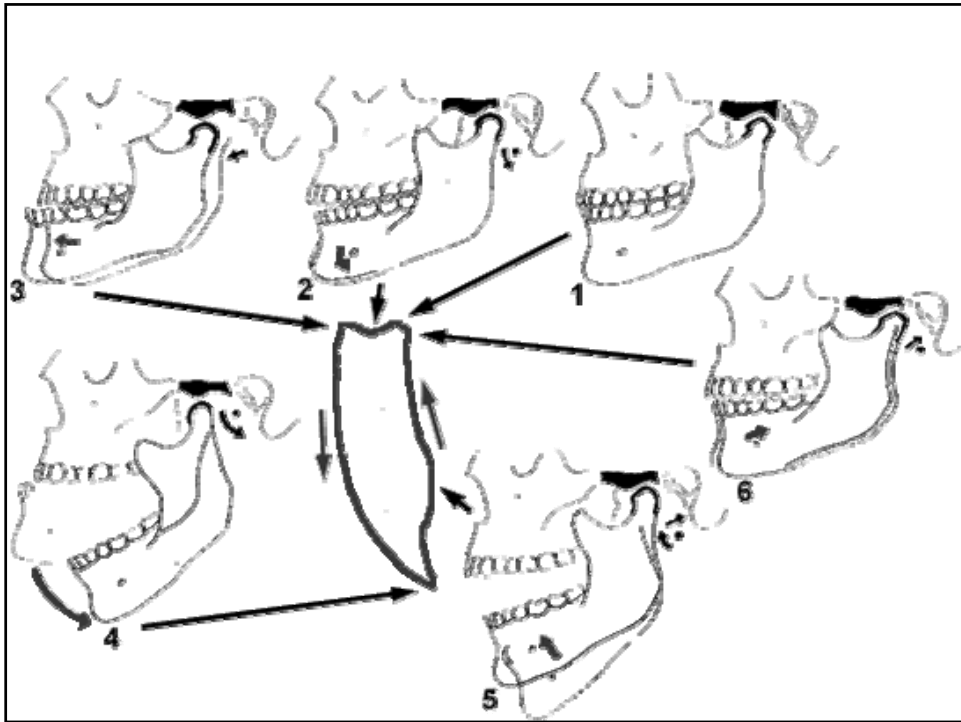


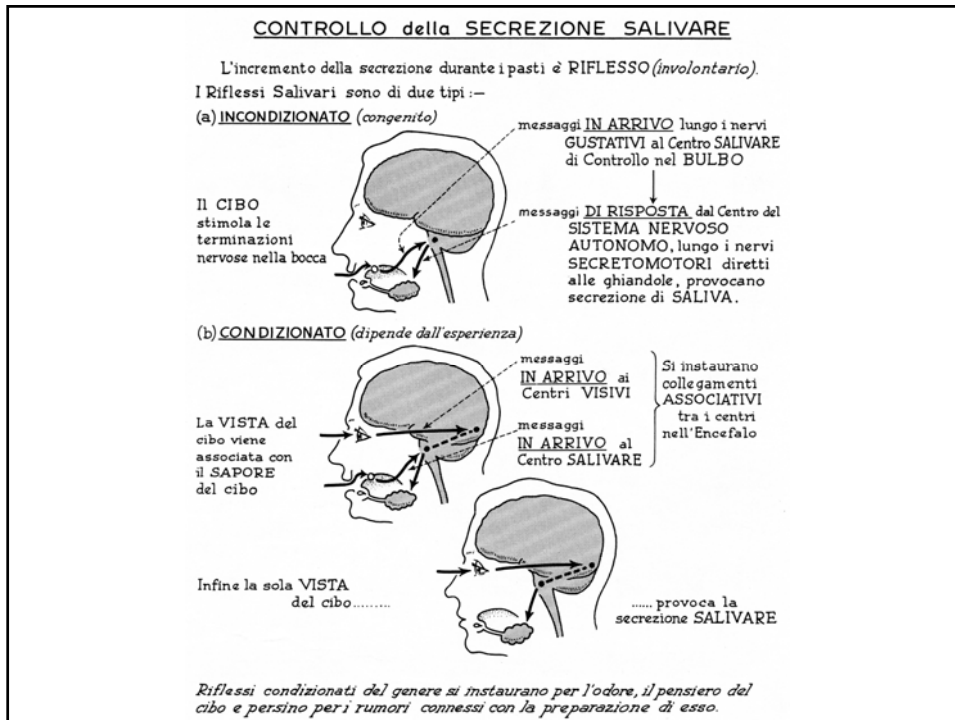
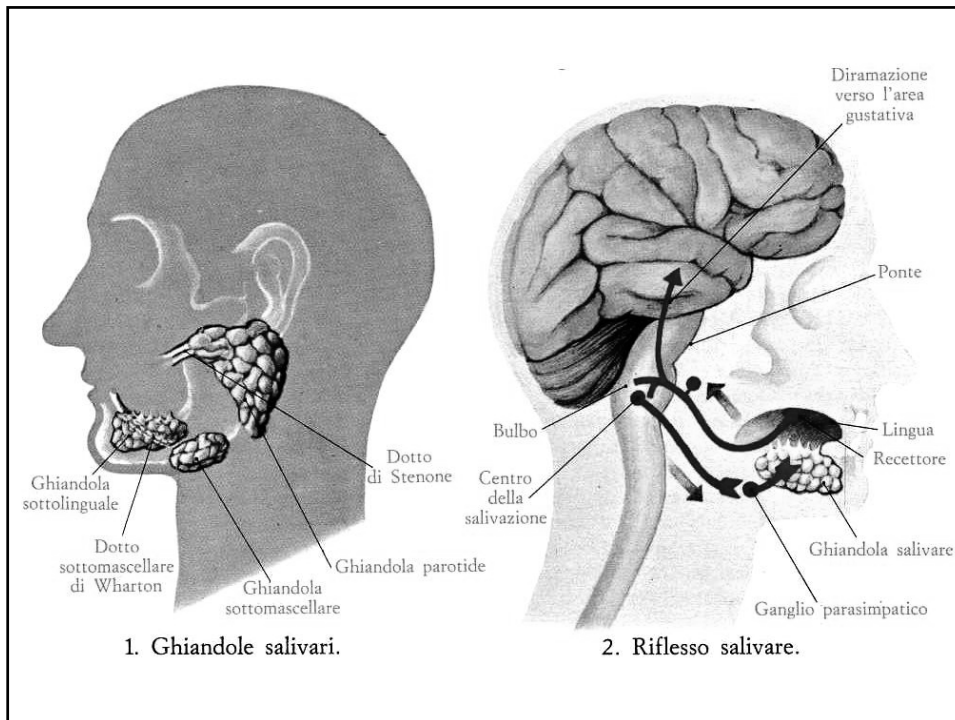


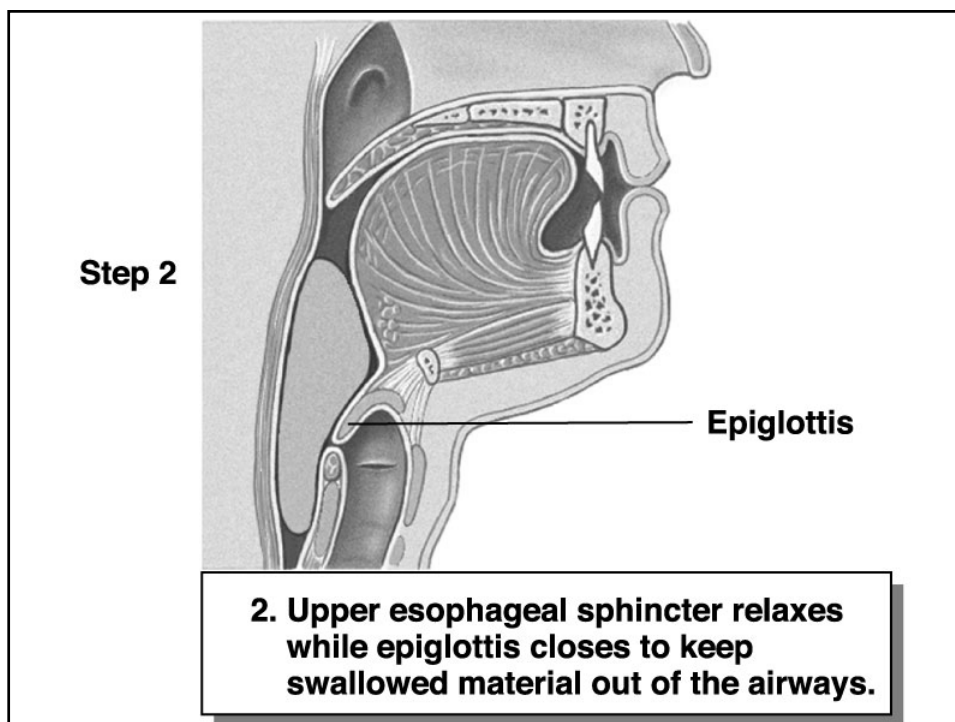
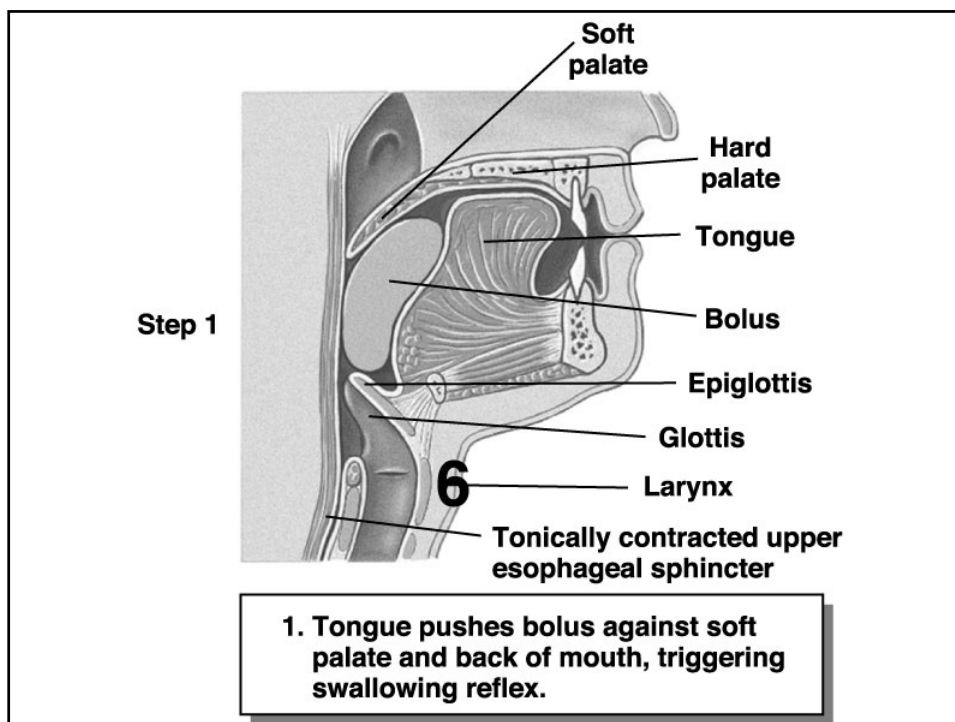


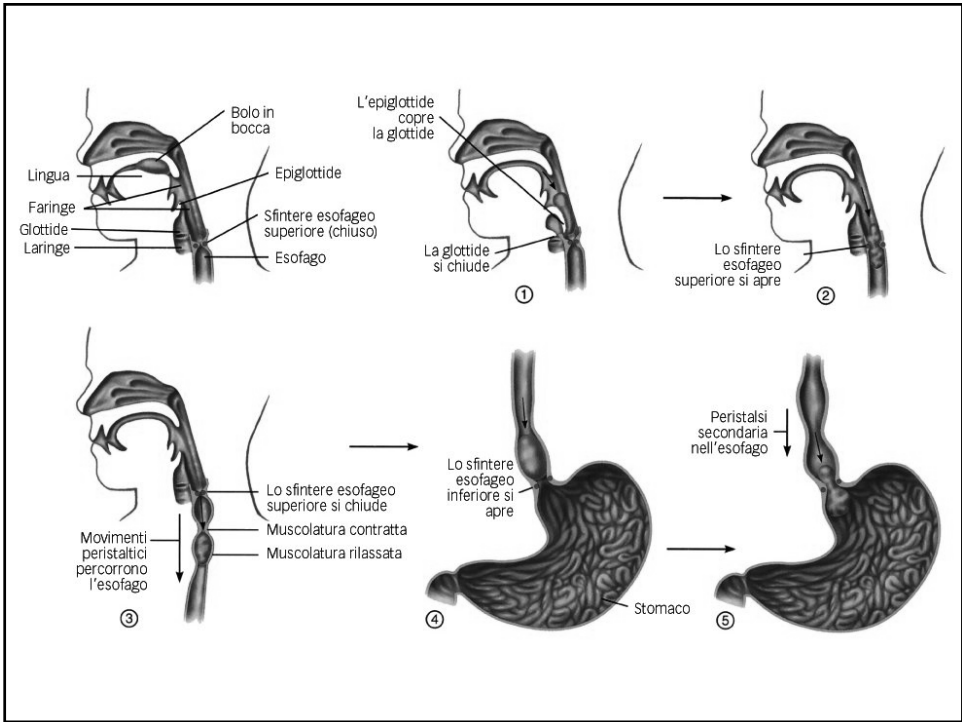
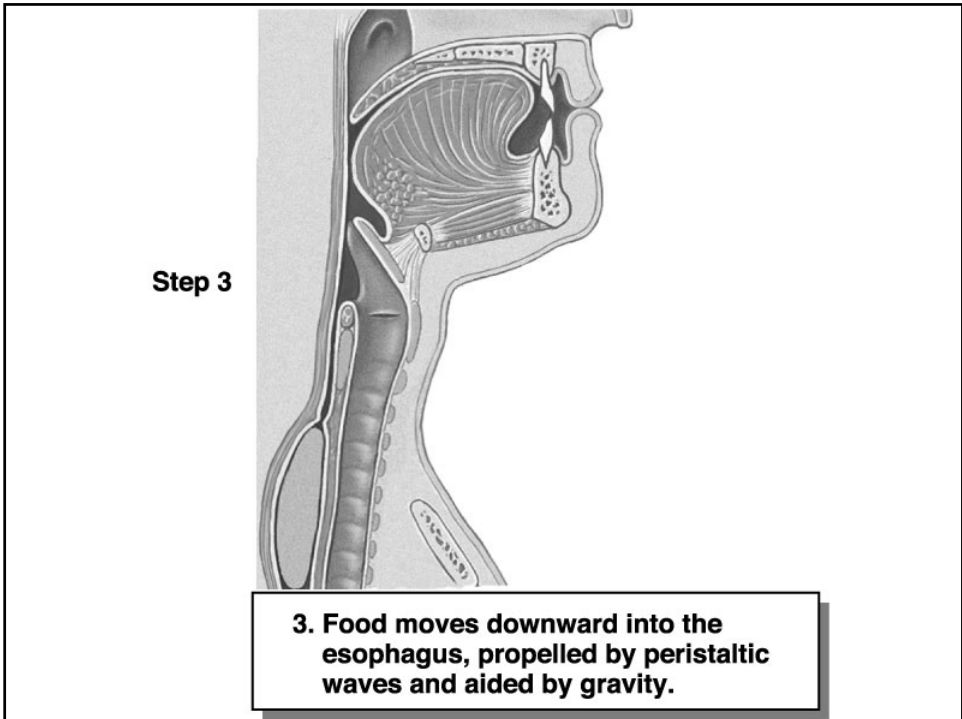


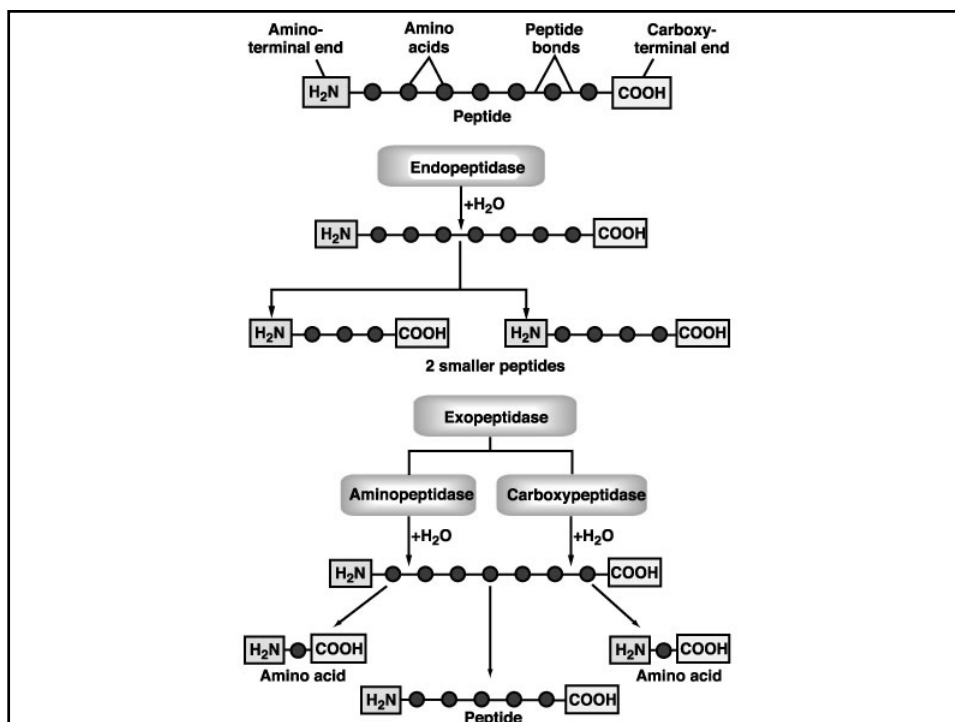
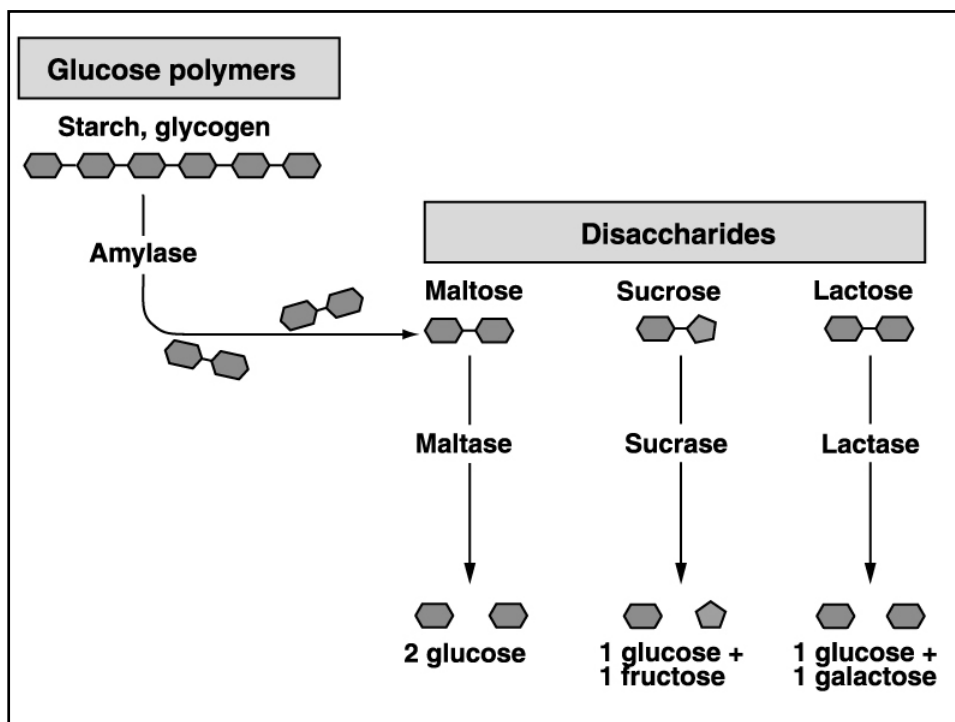


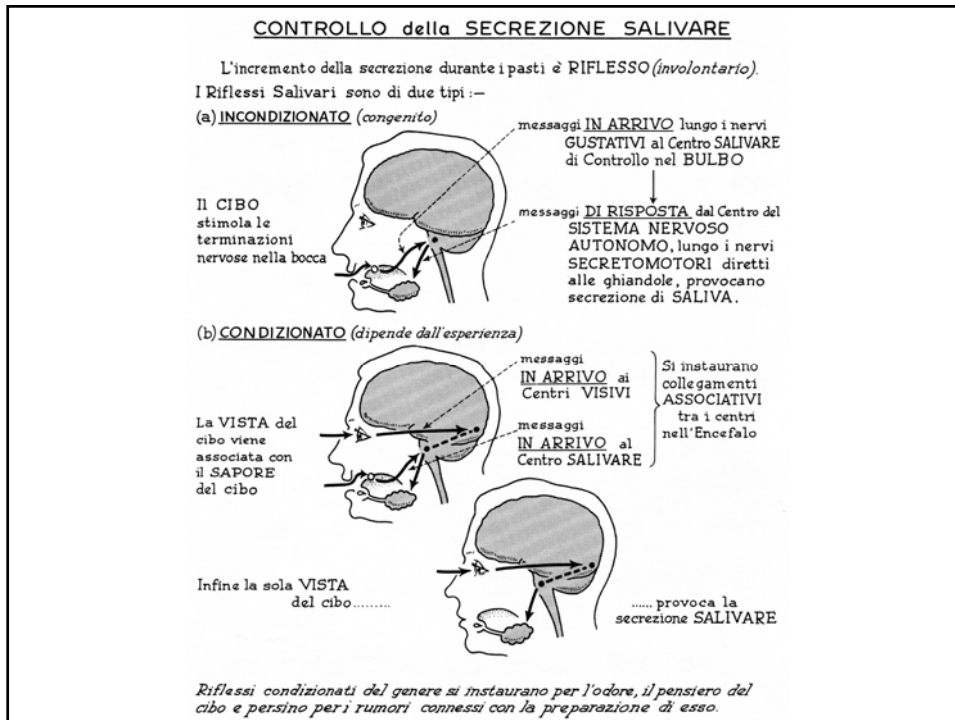
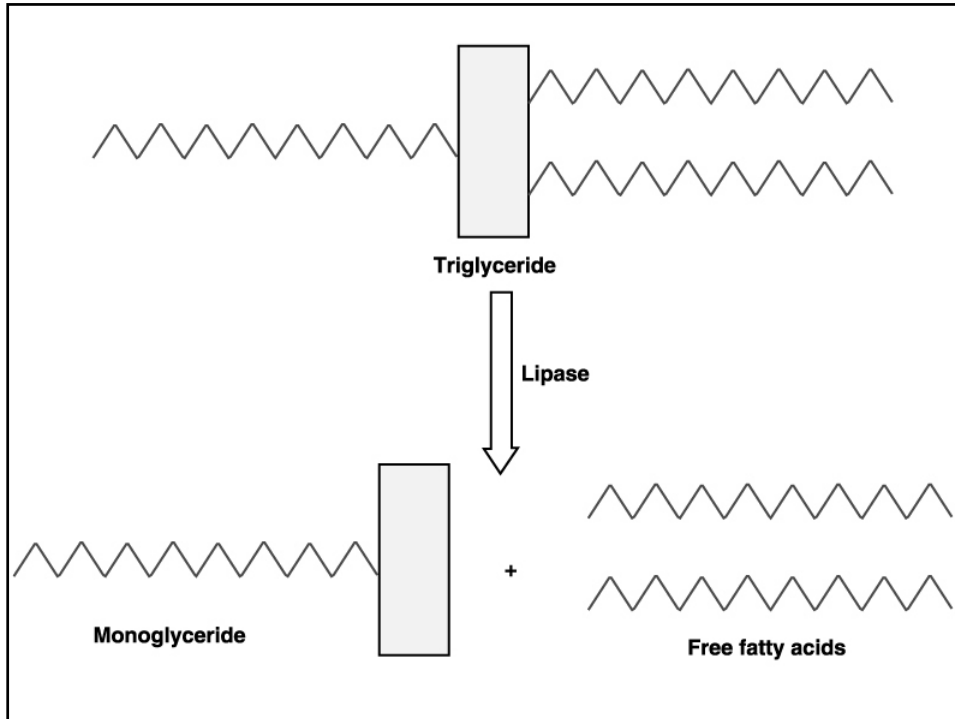












| Source | Substance Secreted | Stimulus for Release | Function |
|----------------------------|--------------------|--|---|
| Mucous neck cell | Mucus | Tonic secretion; increased with irritation of mucosa | Physical barrier between lumen and epithelium |
| | Bicarbonate | Secreted with mucus | Buffers gastric acid to prevent damage to epithelium |
| Parietal cells | Gastric acid (HCl) | Acetylcholine, gastrin, histamine | Activates pepsin; kills bacteria |
| | Intrinsic factor | | Complexes with vitamin B ₁₂ to permit absorption |
| Enterochromaffin-like cell | Histamine | Acetylcholine, gastrin | Stimulates gastric acid secretion |
| Chief cells | Pepsin(ogen) | Acetylcholine, acid, secretin | Digests proteins |
| | Gastric lipase | | Digests fats |
| D cells | Somatostatin | Acid in the stomach | Inhibits gastric acid secretion |
| G cells | Gastrin | Acetylcholine, peptides, and amino acids | Stimulates gastric acid secretion |

| Succo | Enzimi | Substrato | Prodotti finali |
|-------------------|--------------------|-------------------|--------------------------|
| Saliva | Ptialina | Amido | Destrine maltosio |
| Succo gastrico | Pepsina | Proteine | Proteasi, peptoni |
| | Caglio | Caseino- geno | Caseina |
| Succo pancreatico | Tripsina | Proteine | Ammino- acidi |
| | Lipasi | Grassi | Ac. grassi, glicerina |
| | Amilasi | Amido | Maltosio |
| | Disacca- rasi | Disacca- ridi | Monosac- caridi |
| Succo enterico | Entero- chinasi | Tripsino- geno | Tripsina |
| | Peptidasi | Poli- peptidi | Ammino- acidi |
| | Amilasi | Amido | Maltosio |
| | Lipasi | Grassi | Ac. grassi, glicerina |

