Ch 41.3 Notes

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Vocab

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Notes

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Oral Cavity

Mechanical

* Teeth
* Tongue

Chemical

* Salivary glands
* Saliva
  + Mucus
  + Buffers
  + Antimicrobial agents
  + Amylase

Bolus

Pharynx

Throat region

* Esophagus (to stomach)
* Trachea (to lungs)

Esophagus

Connects to stomach.

Peristalsis

UES

LES

Stomach

Below diaphragm

Food + gastric juice = chyme

Chemical

* Hydrochloric acid (HCl)
  + pH= 2
    - Mucus protects.
  + Parietal cells
* Pepsin- peptide bonds
  + Chief cells
* Mechanical
  + Churning
* Peristalsis
* Sphincter

Small Intestine (digestion)

Most chemical digestion here

6m/2.5cm

Duodenum

* Digestion
* Chyme 🡪 secretin 🡪 pancreas
  + bicarbonate 🡪 buffer
  + Proteases (trypsin/chymotrypsin)
* Liver/Gallbladder
  + Secreted/stored
  + Bile🡪 bile salts🡪 fat digestion

Small intestine (absorption)

Jejunum/Ileum

Nutrient absorption

Villi/microvilli

* Brush border

Hepatic portal vein

* Veins/capillaries from villi
* Then to the heart

Lipase🡪 hydrolyzes fat= fatty acid & monoglyceride🡪 + triglycerides and coated= chylomicrons

Chylomicrons go to lacteal🡪 lymphatic system

Water

Large intestine

Colon

* Water absorption

Cecum

* Fermenting ingested material
* Appendix= extension of cecum

Rectum

* Stores feces until elimination
* Inner anal sphincter
* External anal sphincter