

Summary of Digestive Physiology

Region of GI tract	Muscular Movements	Digestion	Adsorption
Mouth	-chewing -swallowing	-most physical digestion -beginning of chemical digestion of carbohydrates (amylase)	_____
Esophagus	-peristalsis	_____	_____
---sphincter ---			
Stomach	-peristalsis - churning → additional muscle layer in muscularis externa	-physical digestion completed -chemical digestion, especially proteins by HCl & enzymes	-some water, alcohol & some drugs
---sphincter ---			
Small Intestine	-peristalsis -segmentation	-duodenum: most chemical digestion of carbohydrates, lipids & proteins by secretions from the pancreas, gall bladder and duodenum itself	-jejunum & ileum: most (90%) absorption occurs here -mucosal lining modified for absorption (plicae, villi, microvilli)
---sphincter ---			
Large Intestine	-peristalsis -segmentation -mass movements	-some bacterial digestion releases additional vitamins & nutrients	-additional water as needed -some additional nutrients from bacterial digestion
---sphincter ---			