

Digestive System

HASPI Medical Anatomy & Physiology 15a
Lab Activity

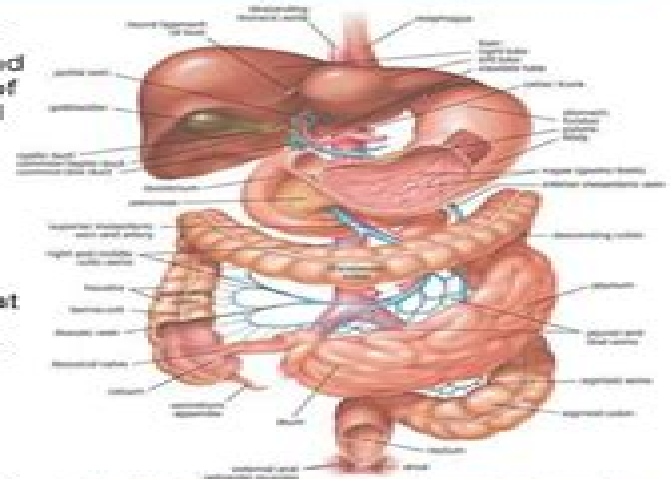
Background

The Digestive System

Digestion is an important process that involves breaking down food and drink into small molecules that can be transported and used by the cells of the body. The digestive system consists of a one-way track, called the gastrointestinal (GI) tract, that food travels through. At various points of the GI tract, digestion, absorption, and elimination occur. Each portion has been structured to perform a specific function.

The GI tract includes the mouth, esophagus, stomach, small intestine, large intestine or colon, rectum, and anus. These organs contain a layer of tissue called the mucosa that is responsible for creating digestive juices, such as enzymes, that are capable of breaking down food. In addition to the mucosa layer there is also a tissue layer of smooth muscle that assists in moving food through the GI tract called the muscularis mucosae. The rhythmic contraction and relaxation of this smooth muscle layer is called peristalsis.

In addition to the GI tract, there are also two solid organs that assist with digestion by creating and releasing substances into the GI tract. The pancreas produces several digestive enzymes, while the liver is responsible for creating bile needed to break down fat. An additional accessory organ is the gallbladder that stores the bile produced by the liver.



<http://demvendigestive.com/art/DigestiveSystem.jpg>

The Process of Digestion

Step	Process
1	Once food enters the mouth, salivary glands produce saliva that contains amylase. Amylase begins the digestion of starch and carbohydrates.
2	From the mouth, food is pushed down the esophagus by swallowing. The food then passes through the cardiac sphincter into the stomach. The cardiac sphincter prevents the contents of the stomach from moving back up the esophagus.
3	Within the stomach, digestive glands within the lining of the stomach produce acid and pepsin to break down proteins. A thick layer of mucus is also released to protect the stomach from the acid.
4	The stomach is a muscular pouch that contracts and releases to "mix up" the food and digestive juices of the stomach much like a washing machine. Once the food is properly mixed, the stomach pushes the contents through the pyloric sphincter into the first part of the small intestine, called the duodenum.
5	The liver, pancreas, and gallbladder are attached to the duodenum through ducts and release additional digestive juices into the small intestine. These include bile to emulsify fats, amylase to further break down carbohydrates, lipase to break down lipids, and trypsin to further break down proteins.
6	As the contents travel through the small intestine, they are absorbed through small projections on the surface of the intestines called villi. Each villi is connected to a capillary so, as molecules diffuse through the villi, they are transferred directly into the blood stream to be taken to the cells of the body.
7	Eventually, any contents that are left and have not been absorbed by the small intestine are pushed through the ileocecal valve into the colon.
8	As the contents move through the colon, water is removed and the leftover contents become feces that are expelled through the rectum and anus during a bowel movement.

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Anatomy and Physiology Laboratory Textbook, Short Version Harold J. Benson, 1994-09 Benson's SHORT is designed for a 1 or 2 semester A P course where no single dissection specimen is used. In addition to the dozens of effective exercises, this lab manual is unique in that students are asked to label many of the figures to reinforce concepts. It is self-contained, detailed, and very logical in its approach. Because of its detailed content, textual material, line art, photos, and histology micrographs, it is generally not necessary to take the course textbook to the lab.

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