



The Digestive System

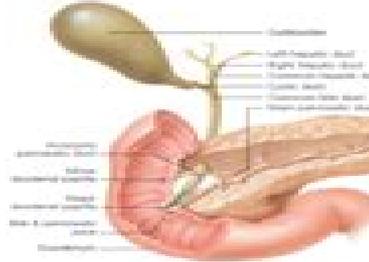
What is the digestive system?

The digestive system, or gastrointestinal tract, is a complex of organs in which foods, beverages, and other nutrients are broken down into smaller molecules that can be absorbed into the bloodstream. The process begins in the mouth, where food is chewed and mixed with saliva. The resulting bolus is then swallowed and moves down the esophagus into the stomach. In the stomach, food is further broken down and mixed with gastric juices. The resulting chyme then moves into the small intestine, where most of the digestion and absorption of nutrients occurs. The remaining waste then moves into the large intestine, where water is absorbed and the waste is prepared for excretion in the rectum and anal canal.

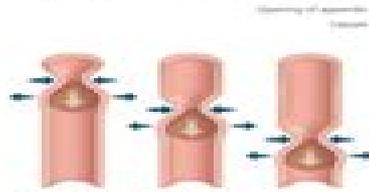


Liver, pancreas & gallbladder

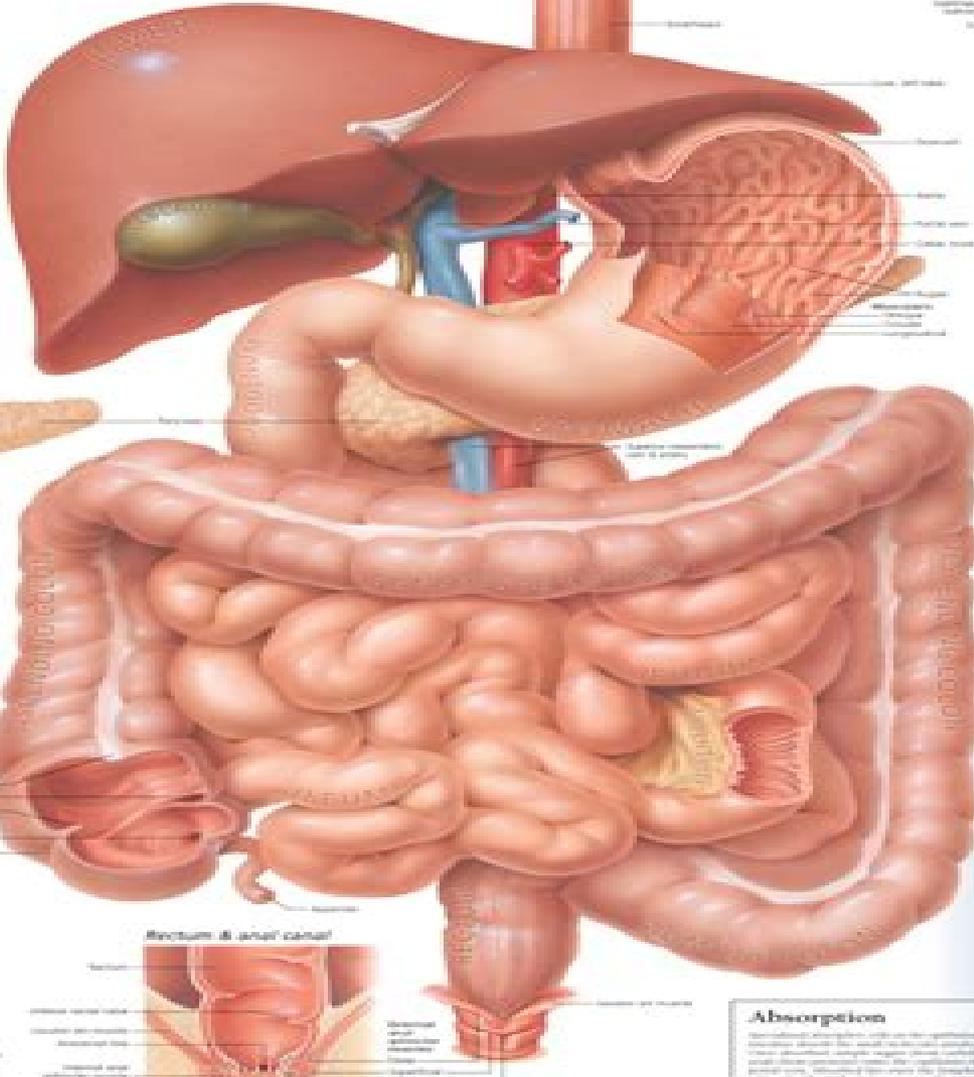
After leaving the stomach, chyme enters the duodenum, the first part of the small intestine. The duodenum is divided into four parts: the duodenum, jejunum, ileum, and cecum. The duodenum is the only part of the small intestine that is partially located in the abdomen. This is why it is often referred to as the "duodenum." The duodenum is connected to the liver, pancreas, and gallbladder. The liver produces bile, which is stored in the gallbladder. The pancreas produces pancreatic juice, which is also stored in the gallbladder. The gallbladder contracts and releases bile into the duodenum to help with the digestion of fats.



The large intestine consists of the cecum, the ascending colon, the transverse colon, the descending colon, the sigmoid colon, and the rectum. The large intestine is responsible for absorbing water and electrolytes from the remaining indigestible food matter. It also produces and stores feces. The large intestine is divided into several parts: the cecum, the ascending colon, the transverse colon, the descending colon, the sigmoid colon, and the rectum. The cecum is the first part of the large intestine and is located in the lower right abdomen. The ascending colon is the part of the large intestine that ascends from the cecum to the transverse colon. The transverse colon is the part of the large intestine that runs across the upper abdomen. The descending colon is the part of the large intestine that descends from the transverse colon to the sigmoid colon. The sigmoid colon is the part of the large intestine that is in an S-shape and is located in the lower left abdomen. The rectum is the final part of the large intestine and is located in the lower left abdomen.



Peristaltic action is the process by which the digestive system moves food through the tract. It is a series of involuntary, rhythmic muscle contractions that push food through the digestive tract. The contractions are coordinated and wave-like, moving from the mouth towards the rectum. The peristaltic action is controlled by the autonomic nervous system. The vagus nerve is the primary nerve that controls the peristaltic action. The vagus nerve sends signals to the muscles of the digestive tract, causing them to contract and relax in a coordinated manner. This process is essential for the efficient movement of food through the digestive tract.



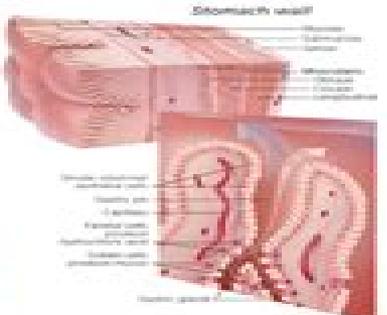
The mouth & salivary glands

Chewing the food breaks it into smaller pieces, making it easier to swallow. Saliva, which is produced by the salivary glands, moistens the food and helps to break it down. The salivary glands are located in the mouth and neck. The parotid gland is the largest of the salivary glands and is located in the neck. The sublingual gland is located under the tongue. The submandibular gland is located under the jaw. The salivary glands produce saliva, which is a mixture of water and enzymes. The enzymes in saliva help to break down carbohydrates into simpler sugars. Saliva also helps to lubricate the food, making it easier to swallow. The salivary glands are controlled by the autonomic nervous system. The parasympathetic nervous system stimulates the salivary glands to produce saliva, while the sympathetic nervous system inhibits them.



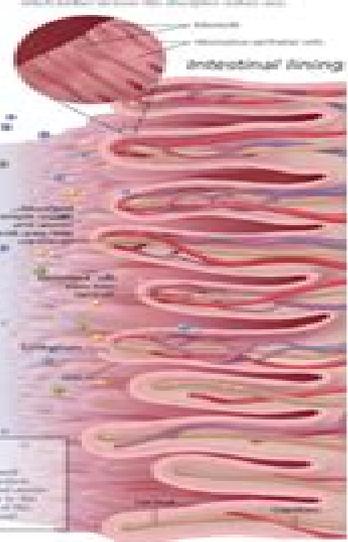
The stomach

The stomach is a muscular organ that is responsible for the digestion of food. It is located in the upper left abdomen. The stomach is divided into two main parts: the fundus and the antrum. The fundus is the upper part of the stomach and is responsible for storing food. The antrum is the lower part of the stomach and is responsible for mixing food with gastric juices. The stomach is lined with a mucous membrane that produces gastric juice. Gastric juice is a mixture of hydrochloric acid and pepsin. Hydrochloric acid helps to break down proteins into smaller peptides. Pepsin is an enzyme that helps to break down proteins into amino acids. The stomach is controlled by the autonomic nervous system. The parasympathetic nervous system stimulates the stomach to produce gastric juice, while the sympathetic nervous system inhibits it.



Small intestine

The small intestine is the longest part of the digestive system. It is located in the upper and middle abdomen. The small intestine is divided into three parts: the duodenum, the jejunum, and the ileum. The duodenum is the first part of the small intestine and is responsible for the digestion of food. The jejunum is the middle part of the small intestine and is responsible for the absorption of nutrients. The ileum is the last part of the small intestine and is responsible for the absorption of nutrients. The small intestine is lined with a mucous membrane that produces intestinal juice. Intestinal juice is a mixture of water and enzymes. The enzymes in intestinal juice help to break down carbohydrates, proteins, and fats into simpler molecules. The small intestine is controlled by the autonomic nervous system. The parasympathetic nervous system stimulates the small intestine to produce intestinal juice, while the sympathetic nervous system inhibits it.



Absorption

The process of absorption is the final step in the digestion of food. It is the process by which nutrients are taken up by the cells of the digestive tract. The nutrients are then transported to the rest of the body. The process of absorption occurs in the small intestine. The small intestine is lined with a mucous membrane that has many small projections called villi. The villi increase the surface area of the small intestine, allowing for more efficient absorption of nutrients. The villi are covered with a thin layer of cells called enterocytes. The enterocytes absorb nutrients from the intestinal lumen and transport them into the bloodstream. The process of absorption is controlled by the autonomic nervous system. The parasympathetic nervous system stimulates the small intestine to absorb nutrients, while the sympathetic nervous system inhibits it.

Digestive Systems Review Sections And 2

Richard Bailey



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