



The Digestive System

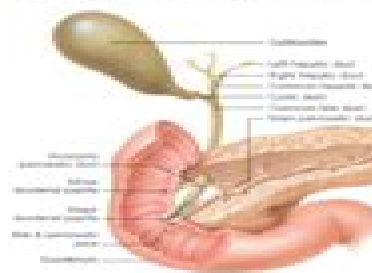
What is the digestive system?

The digestive system, or **gastrointestinal tract**, is a tract of organs that is responsible for digesting and absorbing nutrients from food. Food enters through the mouth, is broken down in the stomach, and then moves through the small intestine, where nutrients are absorbed. The digestive system also includes accessory organs that help in the process, such as the liver, pancreas, and gallbladder.



Liver, pancreas & gallbladder

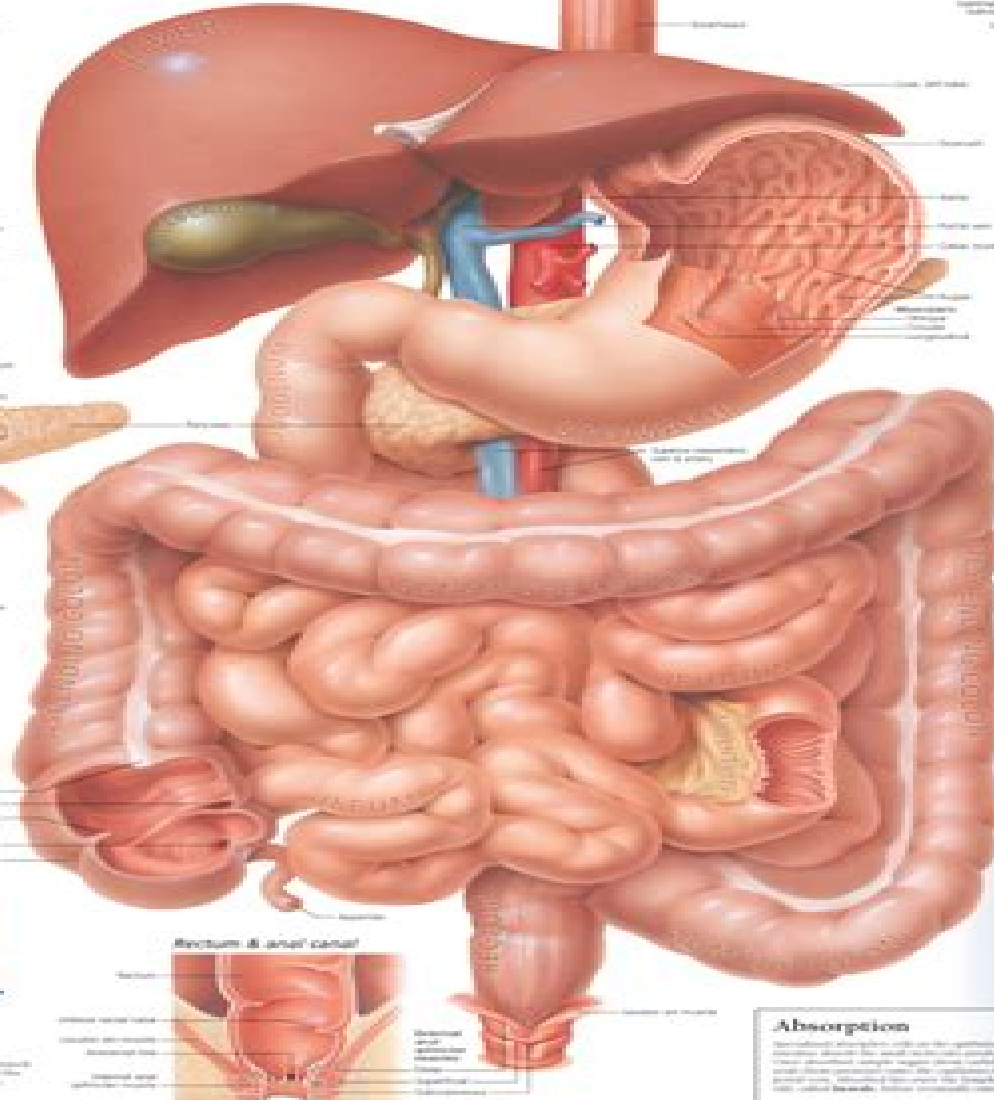
After leaving the stomach, chyme moves into the duodenum, the first part of the small intestine, where it is mixed with bile secreted by the **liver** and pancreatic juice secreted by the **pancreas**. This area is a mixing region on the intestine where the digestive system continues. The **gallbladder** stores bile and releases it into the duodenum.



Large intestine
The large intestine consists of the cecum, the appendix, ascending colon, transverse colon, descending colon, sigmoid colon, and rectum. It is responsible for absorbing water and electrolytes from the remaining indigestible food matter.



Peristaltic action
Food material is pushed through the digestive system by a series of powerful muscular contractions called peristalsis. These contractions move the material forward and the wave which, when it moves, the material is pushed forward.



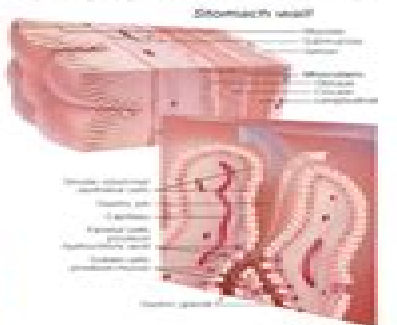
The mouth & salivary glands

Chewing, the mechanical action of the food, is called mastication. Salivary glands secrete saliva into the mouth. Saliva contains the enzyme amylase, which begins the digestion of carbohydrates. Saliva also contains mucus, which helps in the swallowing of food.



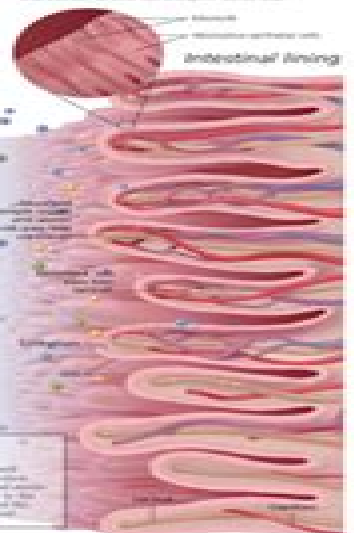
The stomach

The stomach is a large, muscular organ that is responsible for the digestion of food. It is located in the upper left part of the abdomen. The stomach wall is composed of several layers, including the mucosa, submucosa, muscle, and serosa.



Small intestine

The small intestine consists of three parts: the duodenum, jejunum, and ileum. It is responsible for the digestion of food and the absorption of nutrients. The small intestine is highly coiled and has a large surface area for absorption.



Absorption

The process of absorption occurs in the small intestine. Nutrients are absorbed through the intestinal lining and enter the bloodstream. The large intestine is responsible for the absorption of water and electrolytes.

Anatomy Arcade Digestive System

Constantine Stephanidis

A red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the author's name.

Anatomy Arcade Digestive System:

Functional Anatomy of the Digestive System Robert Matthew Hay McMinn, M. H. Hobdell, 1974 Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians Thomas P. Colville, Joanna M. Bassert, 2015-03-31

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The Netter Collection of Medical Illustrations: Digestive System, Volume 9, Part III - Liver, Biliary Tract, and Pancreas -

E-Book James C. Reynolds, Peter J. Ward, John A Martin, Grace L Su, David C. Whitcomb, 2024-04-06 Offering a concise highly visual approach to the basic science and clinical pathology of the digestive system this updated volume in The Netter Collection of Medical Illustrations the CIBA Green Books contains unparalleled didactic illustrations reflecting the latest medical knowledge Revised by Drs James C Reynolds Peter J Ward John A Martin Grace L Su and David C Whitcomb Liver Biliary Tract and Pancreas Part 3 of the Digestive System Volume 9 integrates core concepts of anatomy physiology and other basic sciences with common clinical correlates across health medical and surgical disciplines Classic Netter art updated and new illustrations and modern imaging continue to bring medical concepts to life and make this timeless work an essential resource for students clinicians and educators Provides a highly visual guide to the pancreas liver and biliary tract in a single source from basic sciences and normal anatomy and function through pathologic conditions Offers expert coverage of key topics as well as new topics such as other viruses that cause hepatitis Provides a concise overview of complex information by integrating anatomical and physiological concepts with clinical scenarios Compiles Dr Frank H Netter's master medical artistry an aesthetic tribute and source of inspiration for medical professionals for over half a century along with new art in the Netter tradition for each of the major body systems making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff *HCI International 2015 - Posters' Extended Abstracts* Constantine Stephanidis, 2015-07-20 This is the second volume of the two volume set CCIS 528 and CCIS 529 that contains extended abstracts of the posters presented during the 17th International Conference on Human Computer Interaction HCII 2015 held in Heraklion Crete Greece in August 2015 The total of 1462 papers and 246 posters presented at the HCII 2015 conferences was carefully reviewed and selected from 4843 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers included in this volume are organized in the following topical sections mobile interaction and smart devices social media HCI in business and innovation learning technologies HCI in health assistive technologies and environments fitness and well being applications location and context awareness urban interaction automotive and aviation design and user studies *Health Fair Resource Guide*, 1986 *Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians - E-Book* Thomas P. Colville, Joanna M. Bassert, 2023-01-18 Learn to apply your A P learning in the lab setting with the Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians 4th Edition This practical laboratory resource features a variety of activities such as terminology exercises illustration identification and labelling case presentations and more to help reinforce your understanding of veterinary anatomy and physiology The laboratory manual also features vivid illustrations lists of terms and structures to be identified and step by step dissection guides to walk you through the dissection process Clinically oriented learning exercises introduce

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