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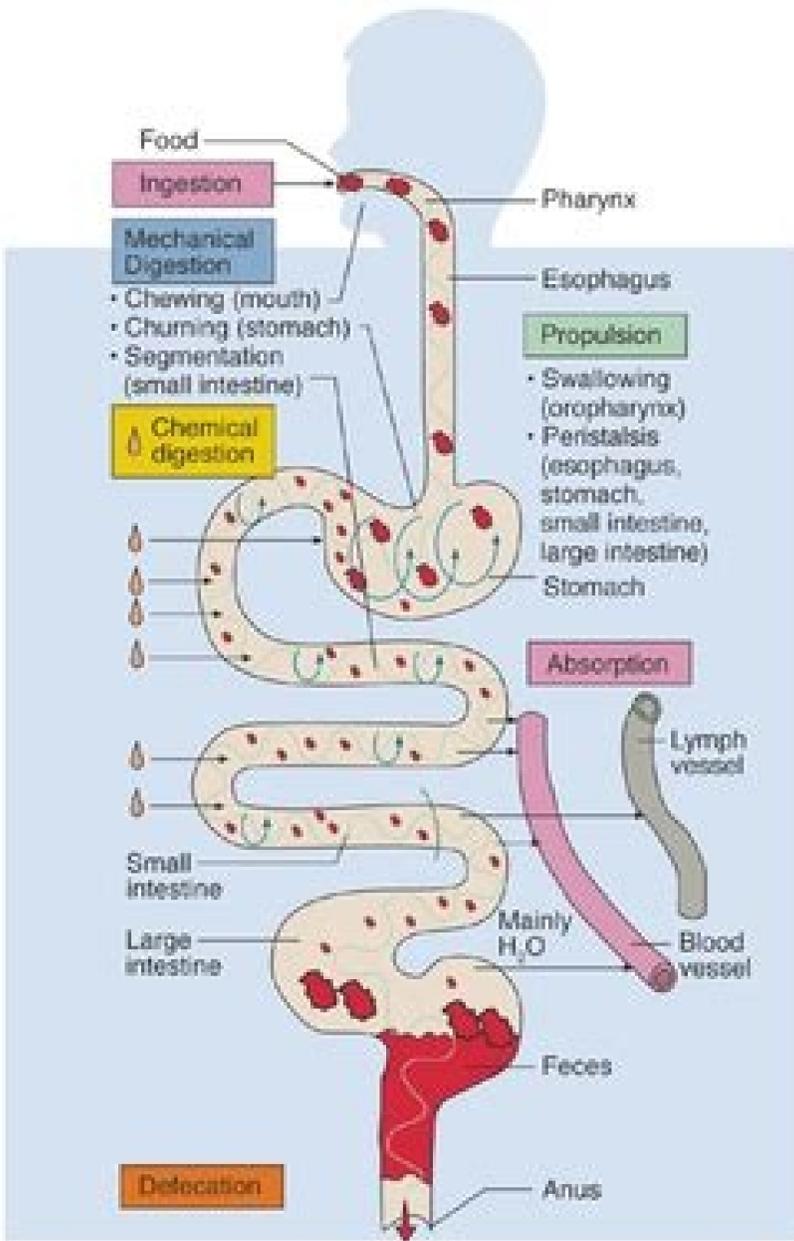


Gastrointestinal Anatomy and Physiology

The Essentials

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WILEY Blackwell

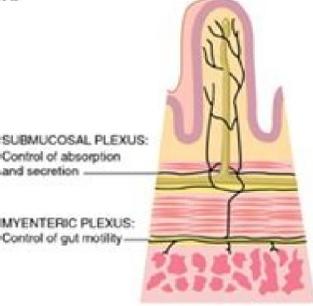


Introduction to Gastrointestinal Physiology

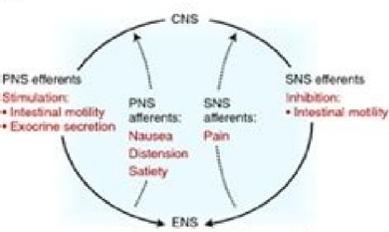
The Digestive System



A.

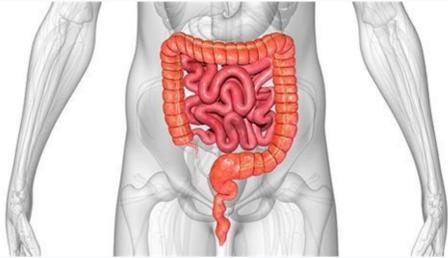


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Once the food products enter the small intestine, the biliary vesicle, the biliary vesicle, and bonding releases, such as bals and enzymes - essential for the digestion to continue. The articles provide the digestive agricultures with oxygen and processed nutrients, and the veins drain the digestive tract. The Myentence plexus (Auerbach plexus) lies in the muscular layer of the food channel and is responsible for motility, especially the rhythm and force of muscle contractions. Interspersed among his epithelial cells are capacity of the holes, which secrete mucus and fluids in the wool and entero-jocular cells, which secrete horms in the interstitial spaces between the cells. When you consider that the food channel is exposed to food bacterials and other strangers, it is not difficult to appreciate why the immune system has evolved a means of defending against the pathogens found within it. How does this change in consistency facilitate your nutrients earning food? The rgans digestive accessories comprise the second group and are critical to orchestrate the breakdown of food and the assimilation of their nutrients in the body. Figure 23.3 Layers of the food channel The wall of the food channel has four basic layers of fabric: the mucosa, submucosa, muscular and serous. The submucosal plexus (Meissner plexus) is in the submucosal layer and is responsible for the regulation of digestive secretions and reacting to the presence of food (see Figure 23.3). The trinsic mangarransia of the food channel are provided by the autonomic nervous system, which includes sympathetic and parasympathetic nerves. Includes blood and lymphatic vessels (transporting absorbed nutrients) and a subject of submucosal glands that release digestive secretions. These folds dramatically increase the surface area available for digestion and absorption. Without these nerves, not only your food would be tasteless, You would also be unable to feel the foods or structures of your mouth, and you can not avoid biting while chewing, an action activated by the engines of the cranial nerves. From the wool and moving out, these layers are the mucosa, submucosa, muscular and serous, which is contained with the meal (see figure 23.3). To appreciate how demanding is the digestive process in the cardiovascular system, consider that while you are a e eEstando and digestingã e, about a room of the blood pumped with every heartbeat enters articles that serve to the intestine. Specifically, the earlier parts of the food canal are provided with blood by branched arths from the aotric arc and the toracian aorta. The veins collect nutrient-rich blood from the small intestine (where most absorptions occur) are empty in the hepatic portal system. These tissues serve to keep the food channel in place closely at the ventral surface of the spine. Muscle in the small intestine is composed of a double layer of smooth muscle: an internal circular layer and an external longitudinal layer. Both the m and the e are open to the external environment; Thus, food and residues within the food canal are technically considered out of the body. This tube begins in the mouth and ends in the AI nus. The inflammation of Peritônio is called peritonitis. It is only so the blood drained from the vans of the food channel circulates back to the heart. The hormanes secreted by several endobric glands, as well as the Endicultural Squirters of the Panalities, the stomach and the small intestine, contribute to the control of the digestion and the metabolism of the nutrients. Instead, this blood is For the boss, where your nutrients are switched off for processing before blood complete your circuit for the heart. The digestive tools within the abdominal cavity are maintained in place by the peritãino, a large serous membranous bag composed of squamous epithelial fabric surrounded by connective tissue. Consider, for example, the interrelation between digestive and cardiovascular systems. As soon as the food enters the mouth, it is detected by the receptors that send impulses along the sensory neurons of the cranial nerves. Figure 23.2 Components of the digestive system All digestive tools play integral papers in the process of sustainment digestion of life. It is composed of two different regions: the parietal peritônio, which lines the abdominal wall, and the visceral peritônio, which involves the abdominal agriculities (Figure 23.4). As its name indicates, the submucosa is immediately below the mucosa. The five major peritoneal folds fold the largest oment's apron structure that resides superficial to the small intestine and the transverse cyclon; A fat deposition in people who are overweight from the falciform ligament anchored to the previous abdominal wall and the lower border of the lower omentum diaphragm suspends the stomach of the lower border of the body; Provides a path to structures that connect to the vertical band of the mesenter of the tissue of the previous tissue to Vã e RTebras lumbar and anchoring all the small intestine, except for the initial portion (the duodenum), Mesocolon assigns two Portions of the thick intestine (the cross-sectional and sigmoid) for the subsequent abdominal wall table 23.2 by clicking on this link you can watch a small video of what happens to the food you eat while passing your mouth to your intestine. The rgans digestive accessories, despite their name, are chronic for the function of the digestive system. Even so, the rate of It still varies from 30 to 40%. At the time Development is complete, they maintain a connection with the intestine through ducts. The first group is the tools that compose the food channel. Within these folds are blood vessels, lymphatic vessels and nerves that inherit the olegs with which they are in contact, providing their adjacent agriculture. Inside the mouth, teeth and tongue begin the mechanical digestion, while salivary glansy begins the chemical digestion. The lamina also serves an immunological function by housing lymphocyte agglomerates, offsetting the lymphoid tissue associated with mucosa (malt). Intrascionic innervng of large part of the food channel is supplied by the nervous system so rich, which runs from the ESA e nus, and rests approximately 100 million motors, sensory and internal (exclusive from this system in comparison with all other parts of the rich nervous system). Along the way, observe how the food changes consistency and shape. The interrelationship of digestive and end regular systems is also chronic. This fast renewal process helps preserve the health of the food channel, despite the wear resulting from the container contact with food. A wide layer of dense connective tissue, connects the mucosa overjuring the underlying muscular. At the same time, the digestive system provides nutrients to the cardiac and vascular fabric to support its operation. The technical trunk services the beans, stomach and duodenum, while the upper and inferior mesentering arths provide blood for the small and large remaining intestines. At the end of this section, you can: Identify the agriculture of the proximal food channel to distal, and briefly indicate its function identifying the digestive agricultures and shortly declaring its function The describing the four layers of fundamental feeding tissues. Contributions the contributions of nervous systems and For digestive digests Operation Explain how the peritãino anchors the digestive tools The function of the digestive system is to break the foods you eat, release your nutrients and absorb those nutrients to the body. The contractions of these layers promote the mechanical digestion, expose more from food to digestive chemical products and move the food along the channel. Figure 23.4 The Peritônio a cross-sectional section of abdomen shows the relationship between abdominal agricultural and peritôn (darker lines). Thus, the location of these horses is described as retroperitoneal. The lipids are absorbed via biquatic, small structures of the lymphatic system. Blank vessels serving the digestive system have two functions. The main function of the agriculture of the food canal is nourishing the body. The basic structure of two layers found in the small intestine is modified in the arrogans proximal and distal to it. Haemorrhatic peritonitis occurs after a broken tubal pregnancy or traumatic injury to the bean or sparc fills the peritoneal cavity with blood. Also called gastrointestinal tract (GI) or intestine, the food channel (food = Aã e r = "for nutringã e r") is a unidirectional tube about 7.62 meters (25 feet) in length during life and closer to 10.67 meters (35 feet) in length when measured after death, once the smooth muscle tone is lost. While the colon has two layers as the small intestine, its longitudinal layer is segregated into three narrow parallel bands, the Tenia coli, which makes it look like a sane of bags instead of a simple tube. The serosa is the portion of the food channel, superficial for muscle. Present only in the food channel region within the abdominal cavity, consists of a layer of visceral peritônio overjacing a layer of loose connective tissue. Aggressive surgery, improvements in the security of anesthesia, the advance of christian knowledge and antibiotics have greatly improved disease. Chemical peritonitis can develop at any time the wall of the food channel is violated, allowing the contents of the lumen entrance in the peritoneal cavity. Contribution from other bodily systems to the benefits of the digestive body system received by the digestive system The digestive tools with oxygen and transformed nutrients Endocrine endobric horms help regulate the secretion in gluã e Digestive ndulas and the Orgãs Accessories Ingunetary skin helps protect the digestive tools and synthesizes vitamin D for lymphotic tissue lymphotic lymphatic of calcium absorption and other lymphatic tissue defend the entry of pathogens; Láctees absorb lipids; and lymphatic vessels carry lipids to the muscular muscular skeletal muscle mothers support and protect the abdominal sensory neurons and nerve motors help regulate contractions and muscle contractions in the digestive tract, the ol Respiratory respirators provide oxygen and remove skeletal carbon dioxide bones help protect and support the urinary ranches of digestive agriculture. Vitamin D in its active form, allowing the harvest absorption in the thin intestine table 23.1 The easiest way to understand the digestive system is to divide their olons into two main categories. These lymphocyte clusters are particularly substantial in distal ol, where they are known as Peyer patches. Peritonitis is threatening life and often results in emergency surgery to correct the underlying problem and intensive antibiotic therapy. In turn, the digestive system provides the nutrients to combat endobric function. Some milliliters of aqueous fluids act as lubricant to minimize the friction between the serosal surfaces of the peritãino. These numerous neurons are grouped in a third The oblique muscle. The mucosa is referred to as a mucous membrane, because the production of mucus mucus Feature of the intestinal epitern. The third layer of the food channel is muscular (also called external muscle). These intestinal veins, constituting the hepatical system, are unusual; They do not return blood directly into the heart. Below this point, the food channel is supplied with blood by articles branching the abdominal aorta. Among these two points, the channel is modified as pharynx, esãFAGO, stomach and small and large intestines to suit the functional needs of the body. Instead of serous, the mouth, the pharynx and the esophagus have a dense sheath of collation fibers called adventity. Epitã eã e "In the mouth, pharynx, esãFAGO and anal channel, the epitã e Lio is mainly a non-keratinized stratinated earthenware. Only through the absorption process The nutrients in the food enter and nourish the space of the bodyã e eã e "inner. Every digestive agreement helps in the distribution of food (Figure 23.3). In contrast, the activation Parasympatic (the response of rest and digests) increases the secretion and motility of GI, stimulating nervous system neurons so rich. In the stomach and intestines, an epitã simple columnar. The second function of blood vessels is to provide the easing of the food channel with the nutrients and oxygen need to conduct their cellular processes. In general, the sympathetic activation (the fight or escape response) restricts the activity of neurons, thus reducing the secretion and motility of GI. Visceral Peritônio includes several large folds that envelops various articulating abdomen Nais, keeping them to the dorsal surface of the body of the body. The even more severe peritonitis is associated with bacterial infections seen with appendicitis, colonitis colonis and inflammatory disease (uterine tube infection, usually by sexually transmissible bacteria). Table 23.1 Give a quick glimpse on how these other systems for the operation of the digestive system. For example, when a musty piercing the wall of the stomach, the gastric juices spill in the peritoneal cavity. Together, these are called agile accessories because they sprout from the coating cells from the developmental intestine (mucosa) and increase their function; in fact, you could not live without your vital contributions, and many significant diseases result from your malfunction. Throughout its length, the food tract is composed by the same four layers of tissues; The details of their structural arrangements vary from adapting their specific functions. In addition, it serves as a conduit for a dense nervous branch network, the submucosal plexus, which functions as described below. The peritoneal cavity is the space limited by visceral and parietal peritoneal surfaces. This venous network takes blood to the beans where nutrients are processedã e

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