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rumination is induced because of mechanical stimulation of nerve endings by the coarse and ridged feed particles in the region of the esophageal opening. the re-mastication activity during rumination reduces particle size and enables the particles to pass on to the reticulo-omasal orifice. the passage is also affected by particle shape, density, and digestibility which are altered during the rumination process (sjaastad et al. 2003 ). the chewing activity during rumination stimulates the secretion of saliva, which facilitates swallowing by providing lubrication and possesses high concentrations of bicarbonate and phosphate buffers that helps in maintaining the ruminal ph at a fixed level (5.5-6.5) which is suitable for rumen microbial activity (ruckebusch 1993 ). regurgitation exposes animals to a reticular contraction, which along with the relaxation of the distal esophageal sphincter, allows a bolus of ingesta to enter the esophagus that is carried into the mouth by reverse peristalsis. the fluid in the bolus is squeezed out with the tongue, remasticated, and then swallowed again (ruckebusch 1993 ). physiology of domestic animals is primarily targeted towards students of veterinary-, animal- and agricultural sciences, but it is also well suited for university courses in general and mammalian physiology. the textbook emphasizes functional aspects of physiology. it contains more than 600 color illustrations, more than 3000 short, clarifying statements placed in the margin, about 2000 questions, and nearly 200 clinical examples. physiology of domestic animals is designed to help students develop the problem-solving skills that they will need in their future careers.

## Physiology Of Domestic Animals Sjaastad Hove And Sand Pdf Download

physiology of domestic animals describes both the digestive and the respiratory systems in the same chapter. the digestive system consists of the mouth, oesophagus, stomach, small intestine, large intestine, and anus. the respiratory system is subdivided into the upper (nasal, oral, and pharyngeal cavities) and lower (lungs, trachea, and bronchi) respiratory tract. the lungs are the most important parts of the respiratory system. the air is inhaled through the nose or the mouth. respiratory movement starts as soon as the air enters the nasal cavity. the air then travels down to the pharynx, through the trachea, and finally reaches the lungs. during respiration, the air enters the lungs through the trachea. after entering the lungs, the air passes through a branching network of airways (bronchi). different air sacs are located in the lungs, where the oxygen and carbon dioxide are exchanged in a chemical reaction. from the lungs, the air passes down to the mouth, through the pharynx and esophagus, and finally through the lower respiratory tract to the oesophagus. the stomach is the anatomical region where the food passes from the mouth to the intestinal tract. the food is first chewed to reduce its particle size. the particulate matter is then mixed with saliva and swallowed. if the food is not properly chewed, the digestive process is interrupted and the food will be regurgitated. the food is then mixed with saliva and swallowed. if the food is swallowed whole, it passes through the oesophagus to the stomach without being chewed. the digestive process is divided into three parts; the mouth, the oesophagus, and the stomach. the mouth is used for chewing food, the oesophagus is used for transporting the food and drink from the mouth to the stomach, and the stomach is used for storing food. the stomach is divided into two main sections; the pyloric region and the fundus. the pyloric region is used for the storage and transportation of the stomach's contents. the fundus is the region where the viscus receives the food, liquids, and undigested ingesta from the stomach. the gastrointestinal tract consists of the esophagus, stomach, small intestine, large intestine, and anus. the esophagus is the organ for transporting food from the mouth to the stomach. the esophagus is located behind the nose. the stomach is the anatomical region where food is stored and partially digested. the small intestine is the anatomical region where the digestion takes place. the large intestine is the anatomical region where the remaining undigested ingesta are stored. the anus is the anatomical region where the waste is eliminated from the body. the lower respiratory tract consists of the trachea, bronchi, and lungs. the trachea is the passageway for air to go from the nose to the lungs. the trachea has a diameter of approximately one inch. the lungs are the organs that allow the exchange of oxygen and carbon dioxide in a chemical reaction. the lungs are divided into the thoracic cavity and the abdominal cavity. the thoracic cavity is separated into two compartments, the pleural cavity and the pericardial cavity. the pleural cavity is located on the outside of the thoracic cavity. the pericardial cavity is located on the inside of the thoracic cavity. the lungs are divided into the air sacs or alveoli. the alveoli are divided into the cranial lobes and the caudal lobes. the cranial lobes are located on the inner aspect of the lung. Sec8ef588b

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