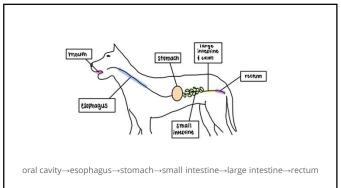
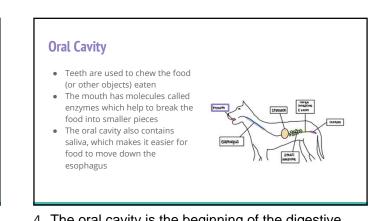


Objectives

- Be able to describe general canine gastrointestinal anatomy.
- Be able to identify common items that could cause obstruction.
- Be able to explain the effects an obstruction can have on their pet.
- Be able to identify treatments for an obstruction.
- 2 These are the objectives that the students should be able to fulfill after completing this lesson.



3 This is the main passageway for ingested food (and items) as they travel through the dog's body. While there are other parts of the passageway that could be identified, these are the main components that should be known.

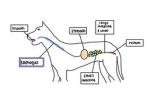


4 The oral cavity is the beginning of the digestive tract and is where the teeth tear and chew food into smaller pieces. Students may notice that dogs have different teeth than humans do. This is because historically dogs are carnivores therefore needed sharper teeth to tear the meat they were eating.

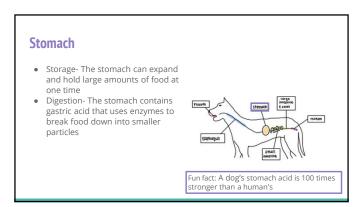
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Esophagus

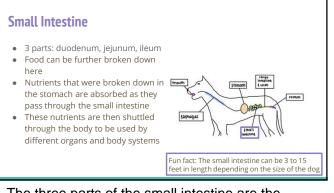
 The esophagus is a muscular tube that allows food to pass from the oral cavity (mouth) to the stomach



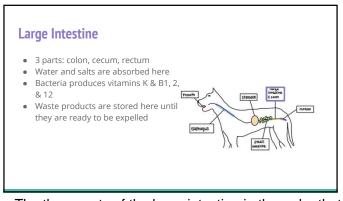
⁵ Moving onto the esophagus, this tube connects the oral cavity to the stomach. Being it is muscular it can stretch for different-sized food particles that are being swallowed, although things can still get stuck here. The area between the oral cavity and the esophagus are the oropharynx and laryngopharynx.



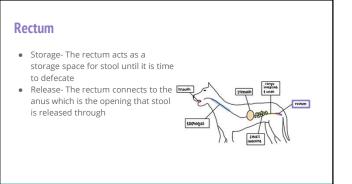
6 The stomach has two main functions storage and digestion. Their stomach acid is 100 times stronger than human's because they need to be able to digest bones if they are swallowed. If there are issues with the stomach then food may not be properly digested.



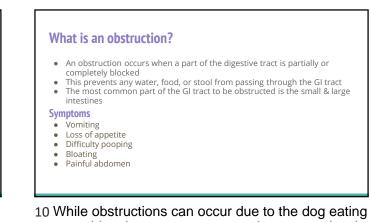
7 The three parts of the small intestine are the duodenum, jejunum, and ileum in that order. The small and large intestines are the most common areas where obstructions occur. The jejunum is the longest part of the small intestine.



8 The three parts of the large intestine in the order that ingesta flows through them are the cecum, colon, and rectum. Ingesta may not always flow through the cecum though. This is where water and salts are absorbed. Vitamin K helps the blood clot and vitamin B helps with normal growth and metabolism.



9 The main functions of the rectum are storing and releasing stool. Stool obstructions can occur when the dog becomes constipated or has other issues that prevent the dog from being able to release stool.



10 While obstructions can occur due to the dog eating something they are not supposed to, as previously mentioned a stool obstruction can also occur. It is important to understand that these symptoms do not always mean that the dog has an obstruction. There could be another issue, that is why it is important for your dog to see a veterinarian if they are showing these symptoms.

What they can eat The most common obstruction in canine patients is foreign objects (socks, underwear, small toys, corn cobs, stuffed animals, towels/wash cloths, etc)



11 These are all examples of foreign objects that dogs like to eat which can cause obstructions. There are many other things that dogs can get into and ingest that can cause harm to them. Therefore, it is important to pick up things and make sure that anything that your dog could eat is not in reach to them.

Effects

- If an obstruction goes in for too long it can cause the tissues in the GI tract to die
- Depending on what is causing the obstruction, it could puncture through the intestines and cause the contents to spill into the abdominal cavity.
- 12 Some effects you may see if your dog has an obstruction include: puncture of the intestines and gastrointestinal tissues dying. Keep in mind that these things can happen if the problem is not caught and solved early on.

Diagnostics- how do we find out?

- Radiographs (x-rays)
- Ultrasound
- Endoscopy (camera going into GI tracts through the oral cavity)
- Exploratory surgery
- 13 These are tests that can be done to confirm that there is an obstruction or foreign body. These are things that the veterinarian may suggest. Radiographs are photos of the inside of your dog.

Treatments

- Surgical methods
 - Exploratory abdominal surgery Non-surgical methods:
 - Endoscopy retrieval
 - Induced vomiting (done with veterinarian supervision)
 IV fluids
 - IV fluids
 Bland diet
 - Small frequent meals
 Anti-nausea medication
- 14 The two main kinds of treatments for an obstruction are surgical and non-surgical. Depending on what is seen in the diagnostics most veterinarians will try the non-surgical treatment methods first before opting to do surgery. However, there are cases when the veterinarian will decide that surgery is the only treatment option.

