2022 Jim Steere Memorial Veterinary Student Scholarship Winner Caroline Kornegay

North Carolina State University class of 2025



Caroline is a 2019 graduate of NCSU in Animal Science with a Veterinary Bioscience Concentration. She grew up in Raleigh, NC and is an avid equestrian. In her free time she spends time with family, friends, and competing/training her young investment horse Cora.

Horse Owner's Nightmare

ou walk into the barn on the first cold day of winter to feed your horse dinner. While walking down the aisle you see a flash of your horse's face in the distance and his lip is curled up. As he disappears into his stall the barn echos with the sound of his pawing. Your heart drops. Before you reach the stall your mind has already gone through a million scenarios of what could happen in the next several hours.



Colic, a term most horse people have heard, is often associated with a nightmare amongst horse owners. Statistically however, 90% of colic cases are treatable by your local veterinarian and do not require referral to an emergency hospital or surgery. Understanding and recognizing the signs of colic and when to call your veterinarian is a crucial skill to learn as a horse owner.

What is colic?

Colic is a generic term that is equivalent to abdominal pain. The horse's digestive tract is mostly free moving, very expansive, and is enveloped in a large open area in the abdomen. The mobility of the intestines and the inability of horses to vomit can cause an array of problems. There are a multitude of different types of colic, but the most common include: gas, impaction, sand, and displacement colic. Gas colic is the most prevalent and occurs when there is a build up of gas that is unable to to expelled. Typically, this is seen when there is a sudden change in diet or the horse's routine has been altered. Impaction colic refers to a blockage in the intestines that does not allow the emptying of the contents. This can occur due to a decrease in water availability in the gastrointestinal tract impeding the contents ability to pass. Sand colic occurs when a horse ingests sand as it is eating and over time creates a buildup of sand that is unable to pass though the gastrointestinal tract due to its nature to sink to

the floor of the intestines. Lastly, displacement colic occurs when the contents of the gastrointestinal tract move into positions that are not typical, causing a disruption in multiple processes. This is mainly due to the anatomy of the horse's gastrointestinal tract and how it is positioned in the abdomen.

How do I know if my horse is colicking?

It is very important to understand the signs of colic because quick medical treatment can improve the outcome of any colic. There are numerous signs of colic and they can vary greatly depending on type of colic, pain level, and the individual horse. As a horse owner it is best to be familiar with most signs so that you easily recognize when a horse starts feeling uncomfortable. The most common signs are biting at sides, stretching out, kicking at stomach, excessive rolling or lying down, pawing, lip curling, and disinterest in food.



Looking or biting at sides www.extension.umn.edu



Stretching out www.acvs.org



Kicking at belly www.centenarycollege.edu



Excessive rolling www.thehorse.com



Pawing www.fineartamerica.com



Lip curl www.extension.org



Not eating www.naturohorse.com

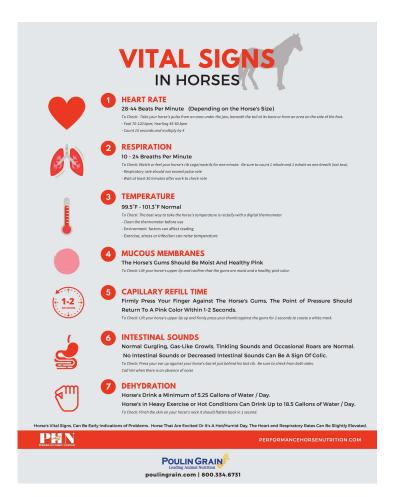


Excessive lying down www.myhorse.co.uk

My horse is colicking, what now?

Collecting vital signs is always helpful prior to calling your vet. This is something that anyone can learn how to do. First, look at your horses gum color and feel them: are they pink, light pink or white; are they moist, tacky, or dry? Next, place a thermometer in the rectum and obtain a temperature. If you have a stethoscope place the end in the crease of the elbow at the abdomen and take a heart rate. Lastly, place the stethoscope on the horses abdomen near the flank and listen for gurgling noises. If you do not have a stethoscope, one can easily be found at a local pharmacy and is a good tool to have in your first aid kit. Now it is time to call your veterinarian. Share all of the information you just obtained and this will help him decipher the degree of colic and what the next steps need to be. At this time, you can also consult with your veterinarian on administering

medications such as Banamine. When your vet arrives, he will do a physical exam. Next, two procedures will be performed: nasogastric intubation and a rectal exam. Typically, both of these procedures require sedation. For nasogastric intubation, he will insert a tube that will be placed into your horse's nose and passed to his stomach. If no liquid is produced from the horse the vet may pump fluids and other substances into his stomach. The rectal exam includes the vet inserting his arm into the rectum to feel for structures in the gastrointestinal tract. After completing the physical, nasogastric intubation, and rectal exam your vet will share the findings, recommendations, and treatment options for your beloved companion.



How can I prevent colic?

Since there are many causes of colic (many unknown) even the best preventive methods sometimes fail. As a horse owner, we all want to avoid having the scary moment when we realize our horse is colicking. There are several preventatives that you can do to ensure the best outcome for your horse. The main preventative method is to keep your horse hydrated, especially when the temperature falls. Tricks for hydrating your horse include adding molasses, electrolytes, or gatorade to the water. Also making a salt lick available will make him feel the need to drink more often. Secondly, make slow transitions in his diet, especially with hay changes. Additionally, if your horse goes out in a sandy area, consider feeding him off the ground so that he does not ingest as much sand. Lastly, it is always a good idea to proactively use a gastro-protectant for competition horses or when your horse is traveling. This will help protect the stomach against gastric ulcers that can lead to a colic episode.

References:

Overview of Colic in Horses- Digestive System. (n.d.). Merk Veterinary Manual . Retrieved from https://www.merckvetmanual.com/digestive-system/colic-in-horses/overview-of-colic-in-horses?query=colic

Gonzalez, Liara; Blikslager, Anthony; Equine Colic Selective. North Carolina State University College of Veterinary Medicine. 2021