

They finally detach and migrate through the remaining GI tract where they are eventually passed in feces. The larvae burrow into the soil and remain for a few more months and later emerge to begin the cycle over again.

Treatment:

In order to keep the fly population low, it is incredibly important to keep the horse's environment as clean as possible by removing feces and transporting them away in a timely manner. This will prevent the larvae from completing their life cycle. Additionally, the drug ivermectin should be given once in the summer and once in the fall to kill the larvae. This drug is effective at killing larvae in the horse's mouth and stomach and is also very safe for the animal. Talk with your veterinarian to determine the correct dosage for your horse.

In conclusion, it is important to remain diligent with preventative measures in order to protect horses from *Gasterophilus*. Many people are led to believe that parasites don't survive through the winter, however since the life cycle of the bot fly is so long, the cold weather will not kill the larval stages inside of the horse. *Gasterophilus* is common in horses across the world but can be controlled through timely feces removal and two ivermectin doses timed appropriately. This disease can affect any horse, from pasture pets to competitive race horses as well as other equids such as mules and donkeys. Fortunately horse bot flies have rarely been found to cause disease humans or other species. As a safety precaution, people should avoid rubbing their eyes after handling a horse. Although this parasite is rarely the cause of death in horses, it is an uncomfortable process which decreases the quality of life for affected animals and should be treated.

Danielle Wolfe is one of three recipients of the 2020 Ride & Tie scholarship award, presented annually to a deserving veterinary student(s). Danielle is a fourth-year veterinary student at Cornell University with an interest in small animal medicine. She was born and raised in Rochester NY and completed her undergraduate degree at Binghamton University. Most of her time with horses has been spent in a veterinary setting, as she has been a large animal surgery technician for the past three years.



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