The goal of heartworm treatment is to kill the adult worms and microfilariae present in your dog, as safely as possible. However, when a dog is treated it is important to consider that heartworms are dying inside the dog’s body. While your dog is treated, it will require complete rest throughout hospitalization and for some time following the last treatment. Additionally, other medications may be necessary to help control the body’s inflammatory reaction as the worms die and are broken down in the dog’s lungs.

CATS: There is currently no effective and safe medical treatment for heartworm infection or heartworm disease in cats. If your cat is diagnosed with heartworms, your veterinarian may recommend medications to reduce the inflammatory response and the resulting heartworm disease, or surgery to remove the heartworms.

CAN HEARTWORMS BE SURGICALLY REMOVED?
Surgical removal of heartworms from dogs and cats is a high-risk procedure and is typically reserved for severe cases. However, in many cases surgical removal of heartworms may be necessary to provide the best opportunity for the pet’s survival.

CAN HEARTWORM DISEASE BE PREVENTED?
Heartworm infection is almost 100% preventable in dogs and cats. There are several FDA-approved heartworm preventives available in a variety of formulations. Your veterinarian can recommend the best method of prevention based upon your pet’s risk factors and lifestyle. Of course, you have to remember to give your pet the preventive in order for it to work!

The preventives do not kill adult heartworms, and will not eliminate heartworm infection or prevent signs of heartworm disease if adults are present in the pet’s body. Therefore, a blood test for existing heartworm infection is recommended before beginning a prevention program to assess the pet’s current heartworm status. Because it is more difficult to detect heartworms in cats, additional testing may be necessary to make sure the cat is not infected.

Testing must then be repeated at appropriate intervals. The next test should be performed about 6 months after starting the preventive treatment, to confirm that your pet was not infected prior to beginning prevention (remember, tests only detect adult worms). Heartworm tests should be performed annually to ensure that your pet doesn’t subsequently become infected with the disease and to ensure the appropriate amount of medication is being prescribed and administered. There have been reports of pets developing heartworm infection despite year-round treatment with a heartworm preventive, so having your pet tested regularly is the best way to keep them protected.

Ferrets, even those kept indoors, are also at risk of heartworm infection. The signs are similar to those seen in dogs, but they develop more rapidly. Just one worm can cause serious disease in a ferret. Your veterinarian can prescribe heartworm medication approved for use in ferrets. The American Heartworm Society recommends year-round prevention for ferrets.
WHAT IS HEARTWORM?

Heartworm is a preventable, but serious and potentially fatal, parasite that primarily infects dogs, cats and ferrets. It can also infect a variety of wild animals, including wild canids (e.g., foxes, wolves, coyotes), wild felids (e.g. tigers, lions, pumas), raccoons, opossums, and pinnipeds (e.g., sea lions and seals), as well as others. There have been documented human infections, but they are thought to be rare and do not usually result in signs of illness.

HOW IS HEARTWORM TRANSMITTED AND WHAT DOES IT CAUSE?

Heartworms can only be transmitted from animal to animal by mosquitoes. When a mosquito bites an infected animal, young heartworms called microfilariae enter into that mosquito’s system. Within two weeks, the microfilariae develop into infective larvae inside the mosquito. If the mosquito then bites another animal, these infective larvae can be transmitted to another animal when this mosquito takes its next blood meal. Unlike dogs, infected cats do not often have microfilariae circulating in their blood, and an infected cat is not likely to transfer the heartworm infection to another mosquito. The infective larvae mature into adult heartworms in approximately six months. During the first three months, the larvae migrate through the animal’s body, eventually reaching the blood vessels of the lungs. During the last three months, the immature worms continue to develop and grow into adults, with females growing to lengths of up to 14 inches. The worms damage the blood vessels, and reduce the heart’s pumping ability, resulting in severe lung and heart disease. When the animal shows signs of illness due to adult heartworm infection, it is called heartworm disease.

WHERE ARE HEARTWORMS FOUND?

Geographically, heartworms are a potential threat in every state as well as in many other countries around the world. All dogs, regardless of age, sex, or living environment, are susceptible to heartworm infection. Indoor, as well as outdoor, cats are also at risk for the disease. If you plan to travel with your dog or cat to a different part of the country, or another country, ask your veterinarian about the risk of heartworm infection in the area where you are going to relocate or visit.

WHAT PETS SHOULD BE TESTED FOR HEARTWORM?

Because heartworms are spread by mosquitoes, any pet exposed to mosquitoes should be tested. This includes pets that only go outside occasionally. Remember that mosquitoes can also get into homes, putting indoor-only pets at risk as well.

HOW CAN MY PET BE TREATED?

Heartworm is a progressive, life-threatening disease. The earlier it is detected and treated, the better the chances that your pet will recover and have less complications.

DOGS: If your dog has been recently or mildly infected with heartworms, he/she may show no signs of illness until the adult worms have developed in the lungs and signs of heartworm disease are observed. As the disease progresses, your dog may cough, become lethargic, lose his/her appetite or have difficulty breathing. You may notice that your dog seems to tire rapidly after only moderate exercise.

The diagnosis of heartworm infection in dogs is much easier than it is with cats. A series of different tests may be needed to help determine whether your cat has heartworm infection as the cause of your cat’s illness and, even then, the results may not be conclusive. In general, both antigen and antibody tests are recommended for cats to determine the presence of heartworms.

HOW CAN I TELL IF MY PET HAS HEARTWORM INFECTION OR DISEASE?

All dogs, regardless of age, sex, or living environment, are susceptible to heartworm infection. Indoor, as well as outdoor, cats are also at risk for the disease.

Blood tests are performed by your veterinarian to detect the presence of adult heartworm infection (>6 month old infections) in your dog. Antigen tests detect the presence of adult female heartworms, and antibody tests determine if your pet has been exposed to heartworms. The antigen test is most commonly performed, and is very accurate in dogs. Further tests, such as chest radiographs (x-rays), a blood profile and an echocardiogram (an ultrasound of the heart), may be necessary to confirm the diagnosis, to evaluate the severity of the disease, and to determine the best treatment plan for your dog.

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