

Dog Heartworm: Risky to Treat; Prevention is Key

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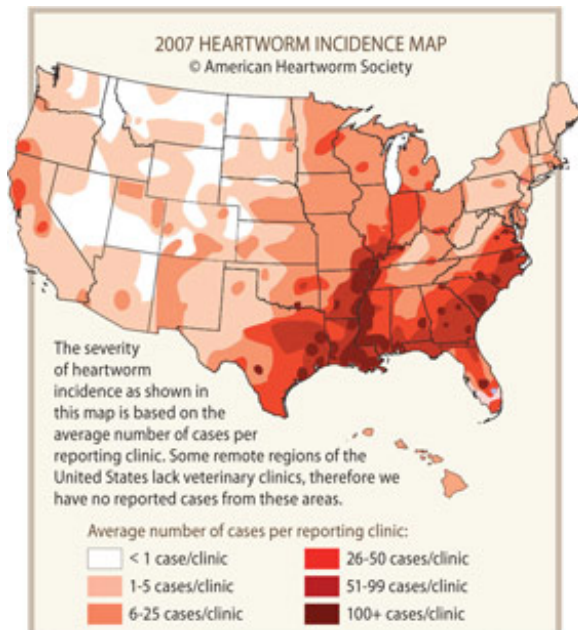
PREVENT Heartworm DISEASE

Occasionally, people ask us if it's really necessary to continue using a heartworm preventive for their dogs. They wonder if there's enough risk to justify the cost, especially since there is a treatment for adult heartworm disease in dogs.



THE FACT IS, HEARTWORM INFECTION is still an extremely serious health concern for your dog, and the risk of it is widespread. The American Heartworm Society notes that adult heartworm disease has been reported in dogs in all 50 states. Adult heartworm disease can cause severe damage to the heart, lungs and other organs, and can eventually lead to death. While it is true that there is a treatment for adult heartworm disease, the treatment can be costly, requires hospitalization, and is not without the risk of side effects.

THE HEARTWORM LIFE CYCLE depends on the mosquito. When the insect bites an infected dog, it takes in tiny heartworm larvae (microfilariae) that have been circulating in the



While heartworm disease is certainly a serious health risk, the good news is that it is also one of the most easily prevented

animal's bloodstream. Once inside the mosquito, the microfilariae mature into infective larvae, eventually migrating to the mosquito's mouthparts, to be transmitted when the insect bites another animal. In the new host, the larvae continue to develop, eventually migrating through the bloodstream to the lungs, heart and associated vessels, where they cause inflammation and obstruct blood flow. As the larvae become adult worms, they mate and produce more microfilariae, continuing the cycle. The heartworm life cycle, from larva to adult worm, generally takes about 6 months.

conditions. Monthly heartworm preventives come in convenient oral forms (such as [Heartgard Plus](#) or [Sentinel](#)) or easily-applied topical applications (such as [Revolution](#)). We recommend using a heartworm preventive every month year-round. In the long run, maintaining your dog's heartworm protection is money well spent.

IF A DOG DEVELOPS HEARTWORM INFECTION, the drug Immiticide (melarsomine hydrochloride) is the only one that is approved by the FDA for the treatment of adult heartworm disease in dogs. Immiticide is given by deep injection into the muscles of the back, usually in two or three doses over the course of several months.

AS THE DRUG WORKS, DEAD AND DYING WORMS in the heart and lungs can cause an inflammatory reaction in the body. While Immiticide is better tolerated by the body than the previously used drug Caparsolate, the dog must still remain hospitalized during treatment to be observed for the development of possible side effects.

AFTER TREATMENT, THE DOG'S ACTIVITY LEVEL must be quite limited to reduce the chance of pulmonary thromboembolism (obstruction of blood flow in the arteries of the lungs, caused by dead heartworms), which can lead to death. Dogs should be confined to a crate and leash walked outside to eliminate only. Heartworm positive dogs must be exercise restricted from the time of diagnosis until four weeks after the final Immiticide injection.

FOLLOW-UP DIAGNOSTIC TESTING MAY BE NEEDED after treatment, also. Although treatment will kill the adult heartworms, it cannot repair any damage that they may have done prior to treatment.

For additional help, view our ["How to Manage Heartworm" video](#).