Heartworm Disease

Heartworms cause a serious and sometimes fatal disease of the heart, lungs, and other organs. Common clinical signs include coughing, difficulty breathing, and exercise intolerance. Heartworm disease can be prevented with medication. Although heartworm disease can be cured with drugs to rid your pet’s heart of adult worms and blood stream of microfilariae, serious complications can develop during treatment. This client education sheet will help you learn more about heartworm disease and will review your veterinarian’s instructions for your pet’s care at home, as well as follow-up with the veterinary health care team.

What You Should Know About Heartworm Disease

Adult heartworms are spaghetti-shaped parasites that live in blood vessels in the heart and occasionally within the lungs. Mature female heartworms release offspring called microfilariae into the blood stream. Microfilariae are tiny – small enough for a mosquito to ingest when the mosquito takes blood from an animal. Mosquitoes transmit heartworms from animal to animal. Although heartworms can occur in cats, they are much more common in dogs.

Microfilariae develop for six months in dogs and eight months in cats before they become adult heartworms capable of releasing microfilariae into the blood stream. During this time, the microfilariae migrate through body tissues until they reach the heart and blood vessels of the lungs. Heartworm disease is the syndrome caused by the body’s response to adult heartworms in the heart and blood vessels in the lungs.

Diagnosis

Heartworm infections are usually diagnosed by your veterinarian with a blood test. X-rays, ECGs, ultrasound, blood and urine tests are useful in assessing the severity of the disease.
Treatment and Home Care

Pets can be protected from heartworm infection with preventive medications. These medications should only be given after an animal tests negative for heartworms. Preventive medications are formulated so that some medications are given daily, monthly and at six-month intervals. Your veterinarian will tell you whether you need to give your pet preventive medication year-round depending on the climate where you live.

If your dog is diagnosed with heartworm disease, treatment will be necessary to kill microfilaria and adult worms. Initially, your veterinarian may choose to administer drugs to kill the microfilaria. After starting that treatment, drugs are used to kill the adult heartworms. During this phase of therapy, your veterinarian may hospitalize your pet. Medications to strengthen the heart and remove fluid may be necessary. When your pet goes home after adult heartworm therapy, you will need to strictly confine it for another month to prevent fragments of dead adult heartworms from obstructing blood vessels in the lungs. Fever, coughing, lethargy, and in severe cases coughing up blood, are signs that this has occurred. These are most often seen five to 10 days after treatment.

Nutritional Plan

Because heartworms can affect an animal’s heart, lungs, liver and kidneys, your pet may show signs of organ failure and fluid accumulation in the chest and abdomen. If your pet has fluid accumulation or signs of failure in one or more of these organs, your veterinarian may give you special feeding instructions. Foods with reduced levels of protein, phosphorus and sodium may improve organ function and help eliminate excess fluid in the chest and abdomen. Such foods include Hill’s® Prescription Diet® h/d® Canine Cardiac Health, Prescription Diet® k/d® Canine and k/d® Feline Renal Health, and Prescription Diet® g/d® Canine and g/d® Feline Early Cardiac-Healthy Aging.

After your pet’s recovery is complete, your veterinarian may suggest another dietary change based on your pet’s age and body condition, and on the presence or absence of disease in other organs and body systems. Optimal nutrition should provide for a pet’s needs during each stage of its life. Optimal nutrition should also reduce the health risks associated with feeding excess sodium, phosphorus, calcium, protein and fat. Foods that avoid harmful excesses and provide proper nutrition for each life stage include Hill’s® Science Diet® brand pet foods.

Transitioning Food

Unless recommended otherwise by your veterinarian, gradually introduce any new food over a seven-day period. Mix the new food with your pet’s former food, gradually increasing its proportion until only the new food is fed.

If your pet is one of the few that doesn’t readily accept a new food, try warming the canned food to body temperature, hand feeding for the first few days, or mixing the dry food with warm water (wait ten minutes before serving). Feed only the recommended food. Don’t feed additional salt or any snacks that may contain sodium. Be patient but firm with your pet. This is important because the success or failure of treatment depends to a large degree on strict adherence to the new food.

Home Care Instructions

Client’s Name: _________________________________________________________

Patient’s Name:  _________________________________________________________

Medication(s):  _________________________________________________________

Nutritional Recommendation:  __________________________________________________

Follow-Up Appointment: ________________________________________________  (Hospital Stamp Area Above)

REGULAR VISITS WILL HELP OUR VETERINARY HEALTH CARE TEAM PROVIDE FOR YOUR PET’S BEST INTEREST.

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