Heartworm Treatment Plan

August 10, 2022

 August 10,2022
In a dog diagnosed and verified as heartworm positive
Positive antigen (Ag) test verified with 2nd Ag or microfilaria (MF) test
If no MF are detected, confirm with second Ag test from a different manufacturer
Apply an EPA-registered canine topical product labeled to repel and kill mosquitoes Begin exercise restriction - the more pronounced the signs, the stricter the exercise restriction
 If the dog is symptomatic:
 Stabilize with appropriate therapy and nursing care
 Prednisone prescribed at 0.5 mg/kg BID 1st week, 0.5 mg/kg SID 2nd week, 0.5 mg/kg EOD 3rd and 4th week

August 11, 2022

 Administer appropriate heartworm preventive
 If MF are detected, pre-treat with antihistamine and/or glucocorticosteroids, if not already on prednisone, to reduce risk of anaphylaxis Observe for at least 8 hours for signs of reaction

August 11, 2022 - September 7, 2022 Administer doxycycline 10 mg/kg BID for 4 weeks
 Reduces pathology associated with dead heartworms
 Disrupts heartworm transmission

September 9, 2022 Administer appropriate heartworm preventive
 Apply an EPA-registered canine topical product to repel and kill mosquitoes

September 10, 2022

A one-month wait period following doxycycline before administering melarsomine is currently recommended as it is hypothesized to allow time for the Wolbachia surface proteins and other metabolites to dissipate before killing the adult worms. It also allows more time for the worms to wither as they become unthrifty after the Wolbachia endosymbionts are eliminated.

October 10, 2022

October 19, 2022
 Administer appropriate heartworm preventive
 Administer first melarsomine injection, 2.5 mg/kg intramuscularly (IM)
 Prescribe prednisone 0.5 mg/kg BID first week, 0.5 mg/kg SID second week, 0.5 mg/kg EOD for the third and fourth weeks
 Decrease activity level even further: cage restriction; on leash when using yard

November 8, 2022

Administer appropriate heartworm preventive
 Administer second melarsomine injection 2.5 mg/kg IM
 Prescribe prednisone, 0.5 mg/kg BID first week, 0.5 mg/kg SID second week, 0.5 mg/kg EOD for the third and fourth weeks

November 9, 2022 Administer third melarsomine injection, 2.5 mg/kg IM
 Continue exercise restriction for 6 to 8 weeks following last melarsomine injections

December 8, 2022

 Test for presence of MF
 If positive treat with a microfilaricide and retest in 4 weeks. Continue a year-round heartworm prevention program based on risk assessment

August 10, 2023

Antigen test 9 months after last melarsomine injection; screen for MF If still Ag positive, re-treat with doxycycline followed by two doses of melarsomine 24 hours apart

Additional Notes

* This At-Home Treatment Plan is only meant to serve as a guide. Please consult your veterinarian for important information about the treatment and prevention of Heartworm Disease