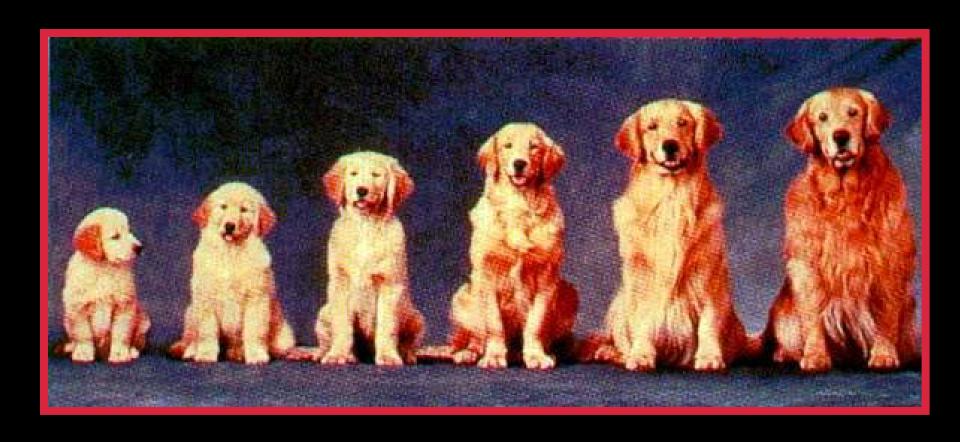
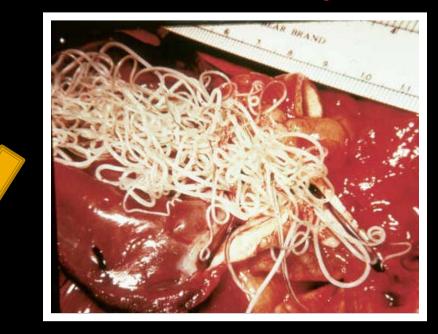




All Ages Susceptible to Infection



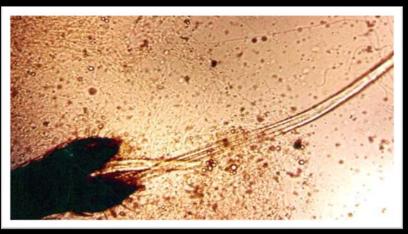
Dirofilaria immitis: Important Stages



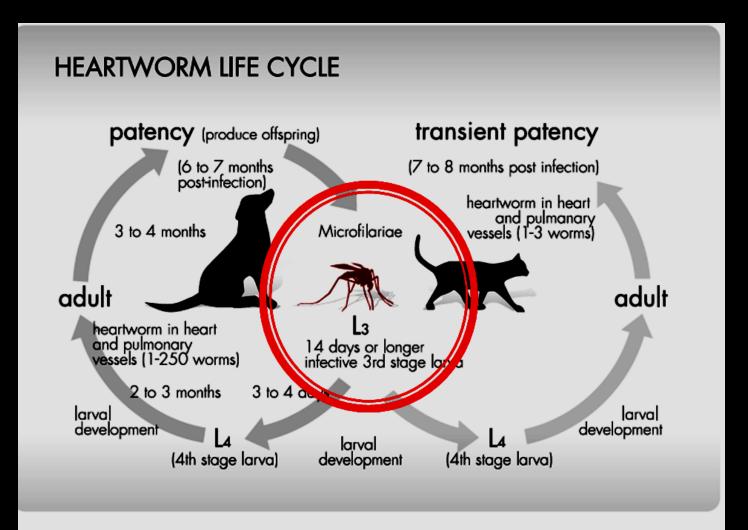








Dirofilaria immitis Life Cycle



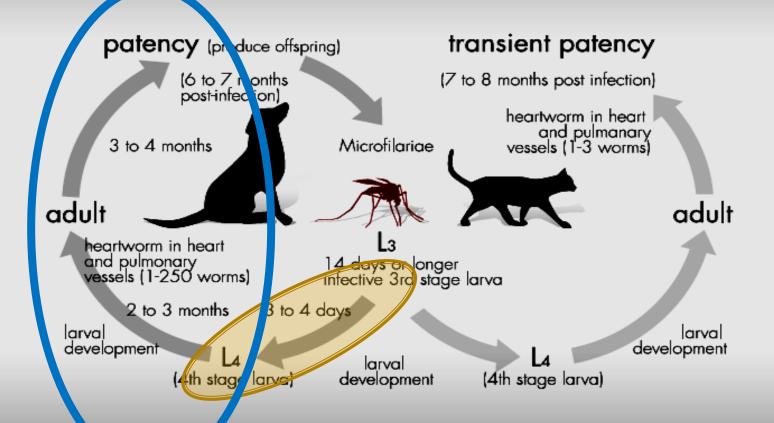






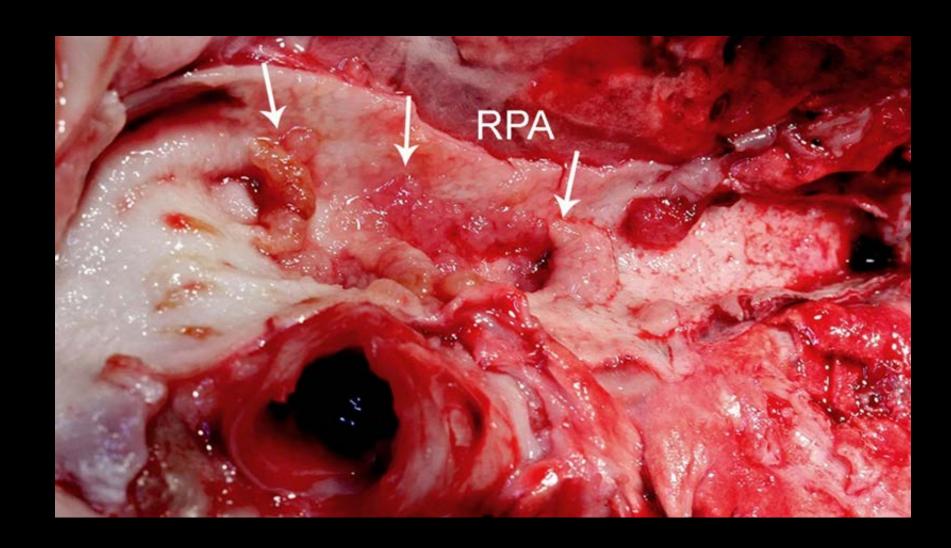


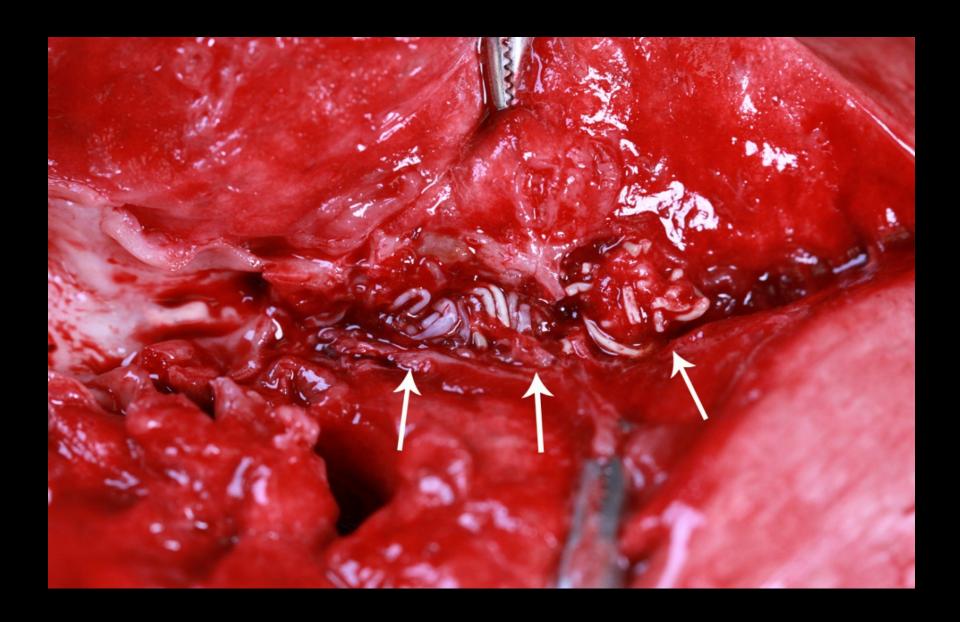
HEARTWORM LIFE CYCLE



Pathology







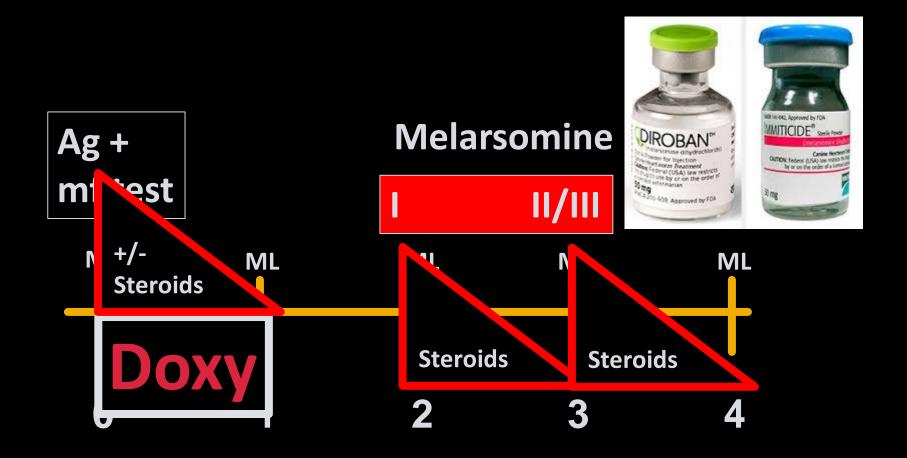
Courtesy of Dr. Steve Jones

Chronic HWD-Signs

- May be asymptomatic
- Symptomatic
 - mild to moderate
 - chronic cough
 - dyspnea
 - decreased exercise tolerance
 - moderate to severe
 - syncope
 - hemoptysis
 - severe
 - congestive heart failure



Heartworm Treatment Summary

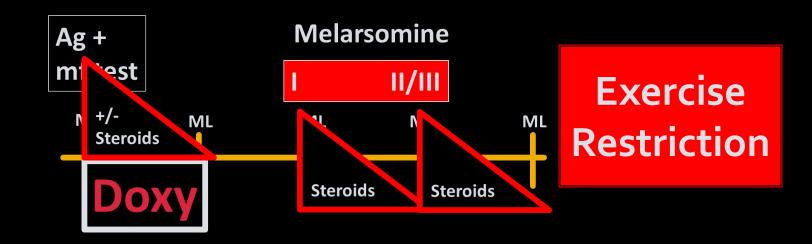


MONTHS

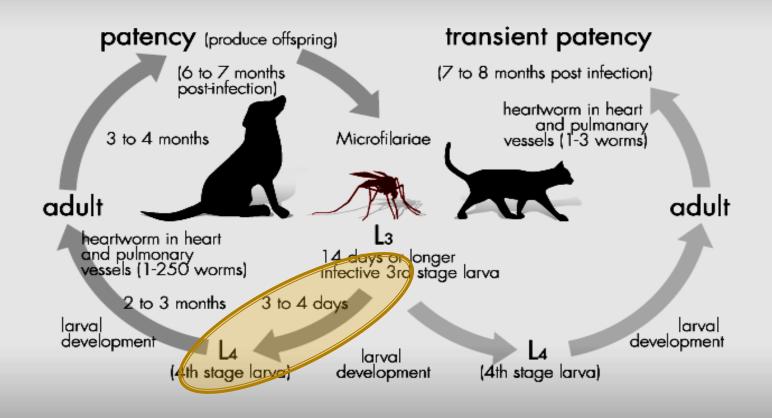
EXERCISE RESTRICTION

- Diagnosis
 - Reduced activity
- Treatment 6-8 weeks post-Tx
- Recovery

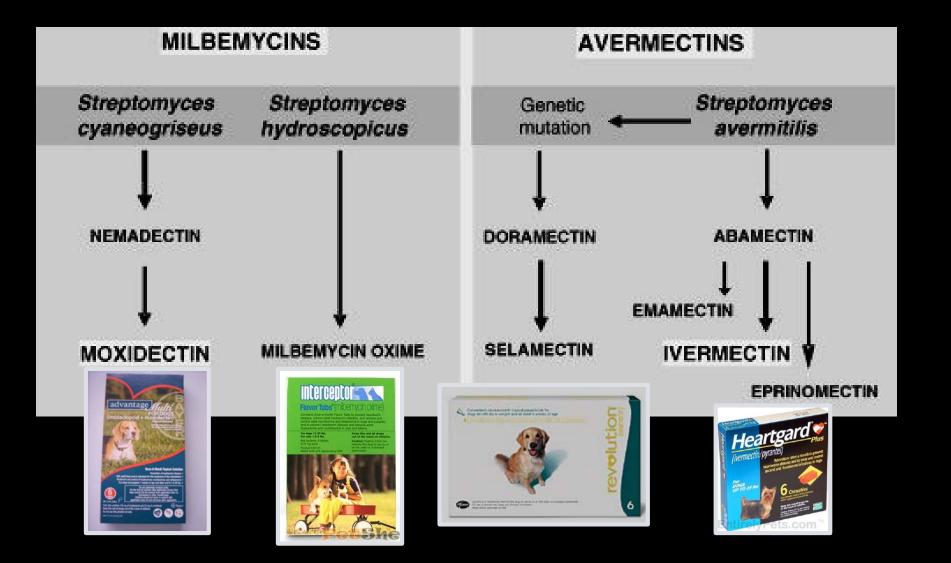




HEARTWORM LIFE CYCLE



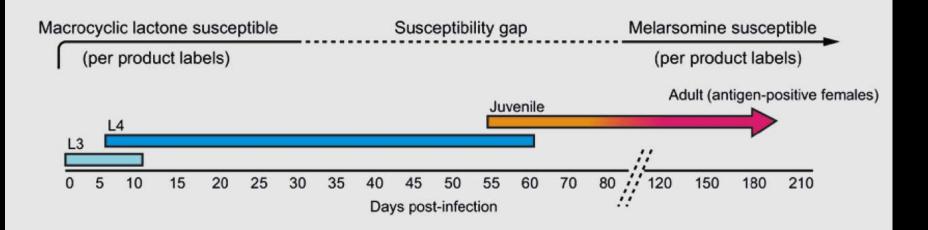
Macrocyclic Lactones



Heartworm Prophylaxis

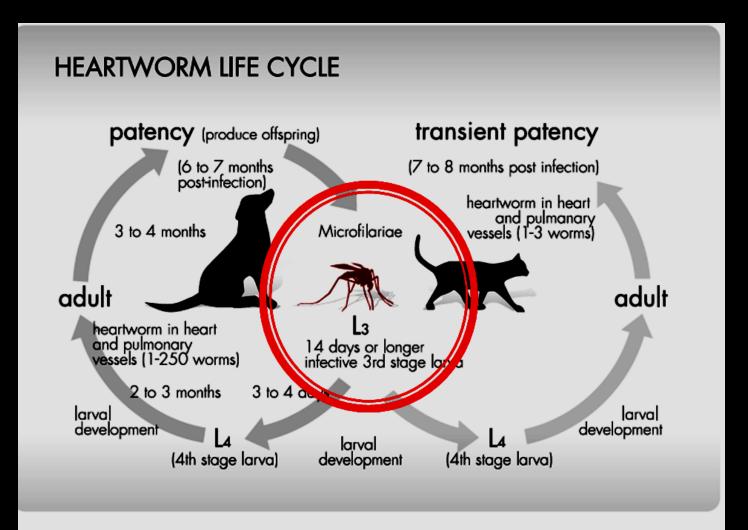
Monthly ML treatments kill L3 and L4 stages

Timeline of *D. immitis* development, showing periods of susceptibility to macrocyclic lactones and melarsomine



The dotted line represents the "treatment gap", when *D. immitis* are not considered to be susceptible to either treatment.

Dirofilaria immitis Life Cycle



Mosquito Vectors

- > 70 species
 - 10 12 species more important

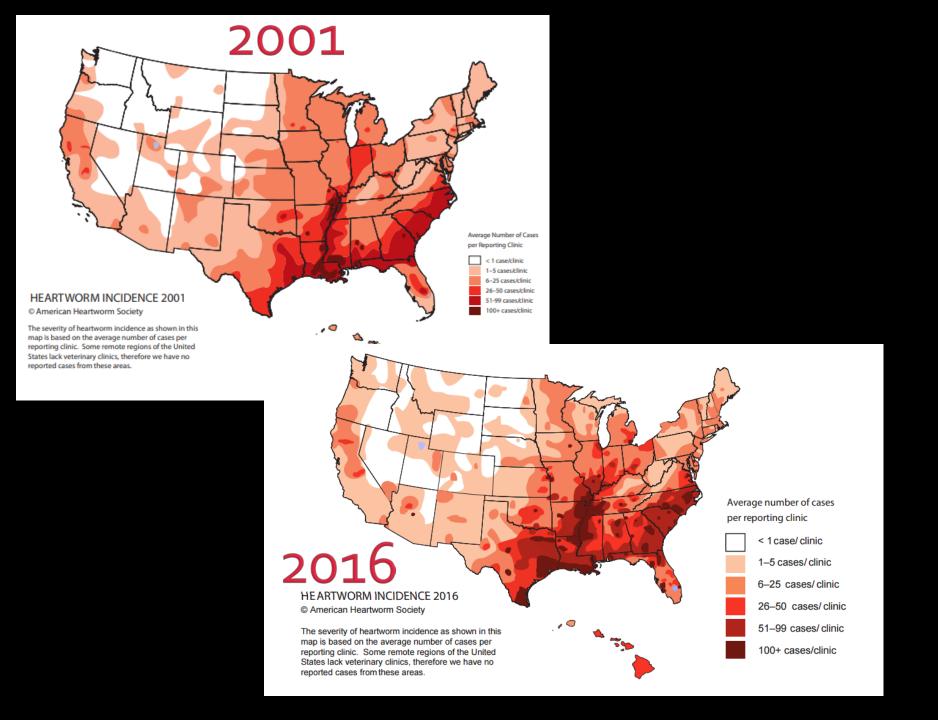


Mosquito Vectors

- > 70 species
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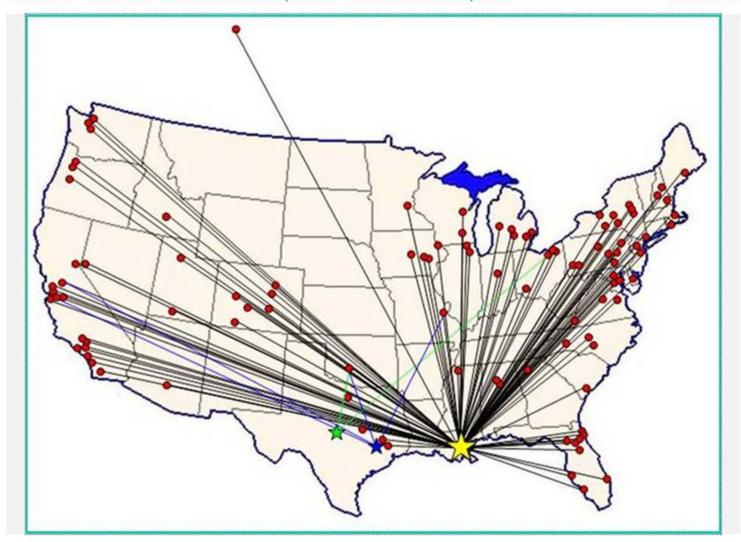


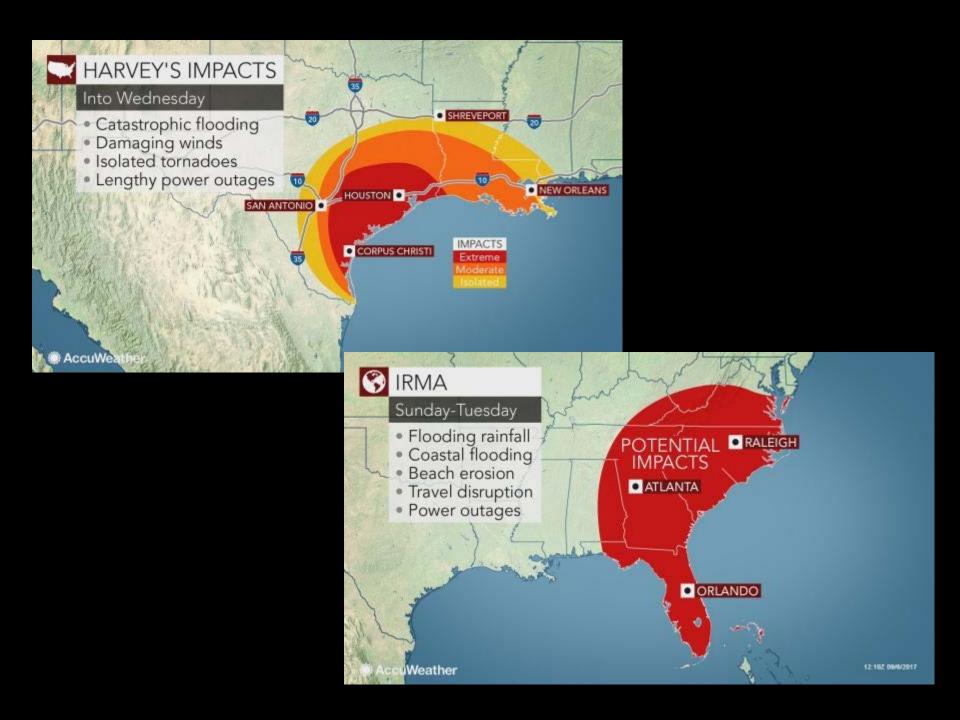


American Heartworm Society's Photos - Wall Photos

Photo 19 of 23 Back to Album · American Heartworm Society's Photos · American Heartworm Society's Profile

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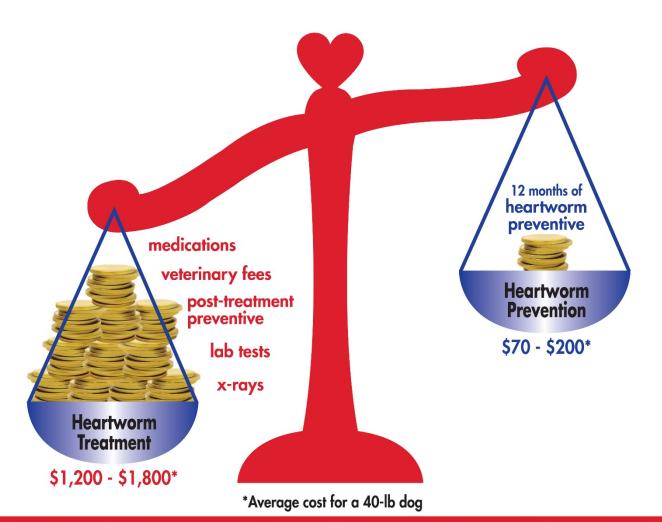




Weigh the Costs

Heartworm Treatment vs Heartworm Prevention





HEARTWORMS THAT LIVE IN A PET'S HEART, LUNGS OR BLOOD VESSELS CAN GROW MORE THAN 12 INCHES IN LENGTH ***



Heartworm disease is prevalent in

ALL 50 STATES.



It is estimated that a MILLION dogs in the U.S. have heartworm disease today.

It only takes DITE from an infected MOSQUITO to spread heartworm disease to a pet.

Pets should be PROTECTED from heartworm 12 MONTHS A YEAR.

It takes approximately **6 months** after being bitten by an infected mosquito for a dog to test positive for heartworms.

DOGS SHOULD BE TESTED FOR HEARTWORM EVERY 12 MONTHS

Heartworm PREVENTION is much less expensive than treatment. Treatment can

COST MORE THAN

that of a year's worth of heartworm preventive. a mature, heartworms can live up.

There is only ONE

There is only **ONE** approved treatment for heartworm in dogs.

treatments for heartworm in cats.

AMERICAN

Visit heartwormsociety.org/think12 for more information.
© 2013 AMERICAN HEARTWORM SOCIETY

What can I take away from today?





GEORGIA

College of Veterinary Medicine





