



Effectiveness of Heartworm Disease

Preventative:

Vedra3D[®]

Nikki Solano

41st Annual Meeting of GMCA

October 18th, 2018



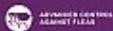
Even if fleas had 9 lives,
2 hours would end them all.



Vectra® Felis. Fast protection... no bite required.

Cats are known for their ability to survive adversity - but that doesn't mean they should be bitten by fleas.

- Vectra® Felis kills adult fleas within two hours for a full month - without the flea needing to bite.
- Vectra® Felis inhibits immature stages (eggs, larvae and pupae) for three months protecting the home and reducing reinfestation.



ADVANCED CONTROL
AGAINST FLEAS



ADVANCED CONTROL
AGAINST EGGS, LARVAE & PUPAE

PART OF THE
Ceva
Protection
SYSTEM



Ask your Ceva Territory Manager for further information or contact us on 01434 781510.

Vectra® Felis contains fluralaner and pyriproxyfen.
Vet. Authorisation No. 02063 / 01001 / 0502
Use medicines responsibly (www.gov.uk/topics/medicines)
Further information is available on product data sheet and at ceva.com/uk
Ceva Animal Health Ltd, Unit 5, Alpha Centre Park, White Lane Road, Northfleet, Essex S11 1PE
Tel: 01434 781510 Fax: 01434 781511 www.ceva.com

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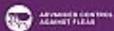
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Vet. medicines supplied by www.boehringer-ingenier-ludwig-limburg.com
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heart-stopping fact

brought to you by 



More than 70 species of mosquitoes, which are found in most geographical areas, are capable of transmitting heartworm!

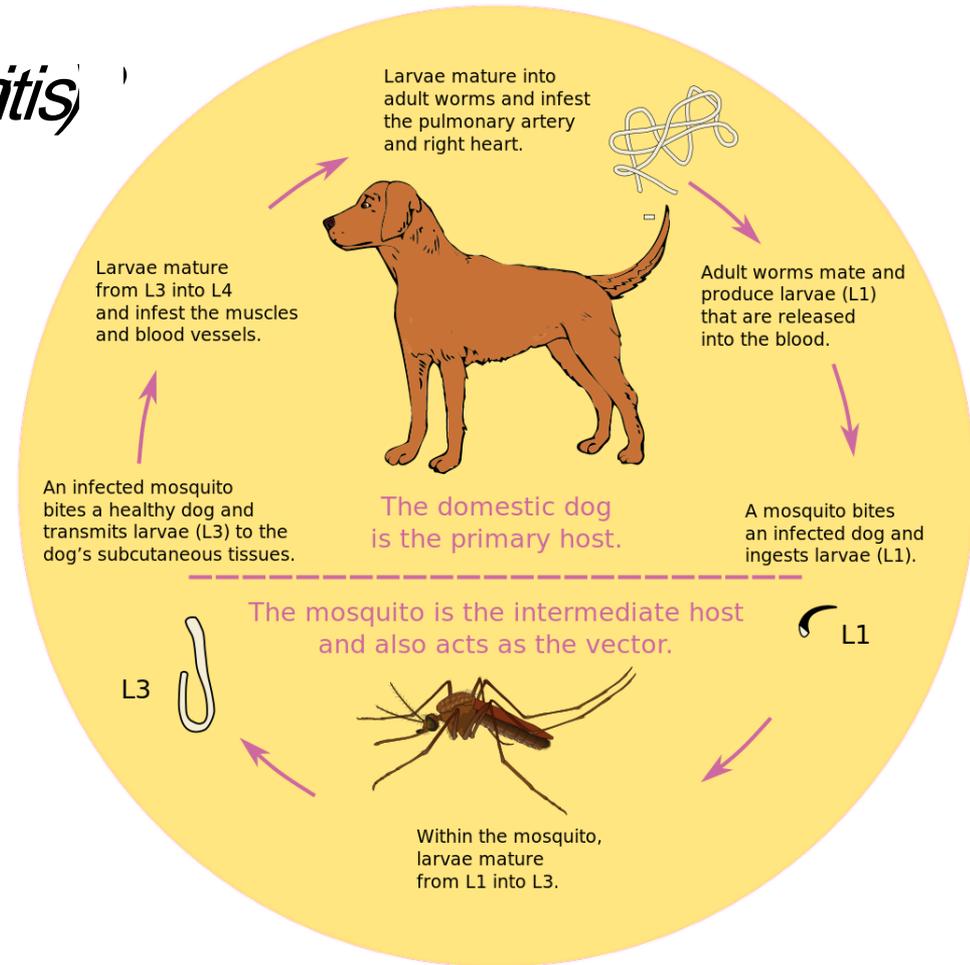
© 2017 Ceva Animal Health, LLC
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1. Companion Animal Parasite Council, (n.d.). Canine Heartworm Retrieved April 4, 2017 from <http://cappvet.org/cappc-recommendations/canine-heartworm/>

It's extremely important to repel mosquitoes BEFORE they bite your dog. Ask your veterinarian how you can beat the buzzers with Vectra® 3D.

<https://me.me/t/vectra?s=new>

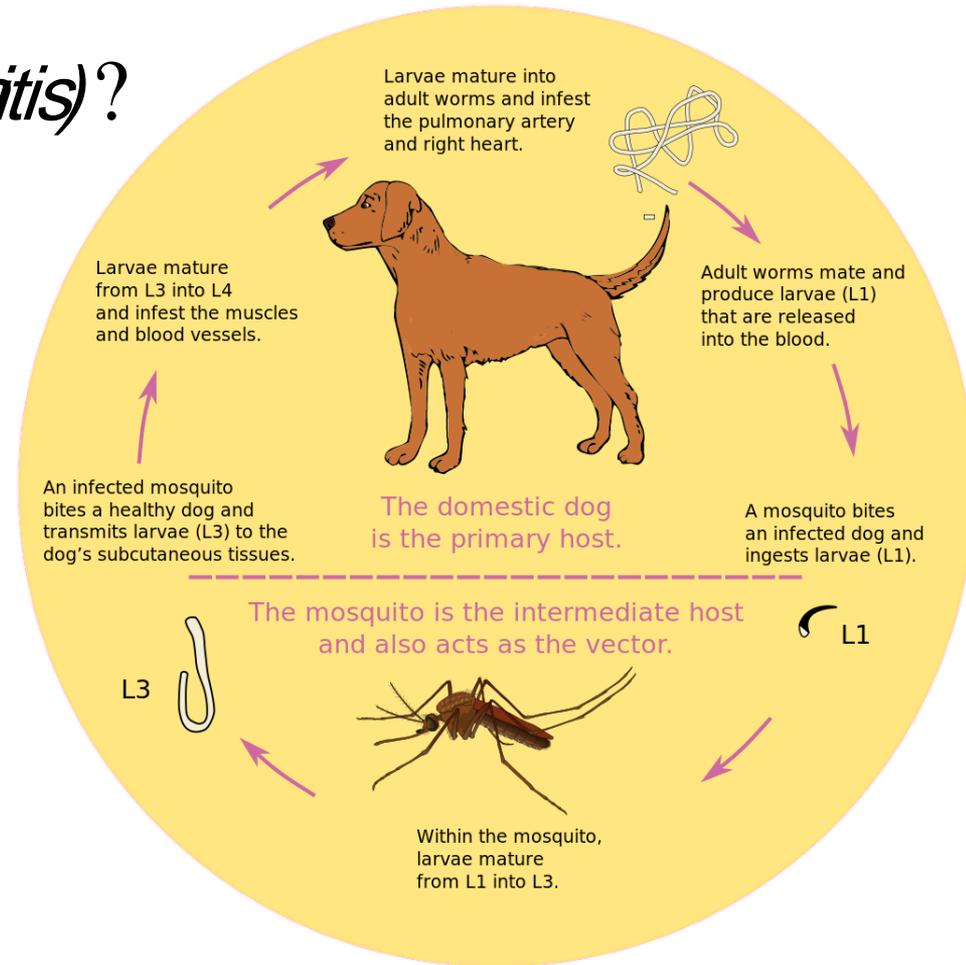
<https://adpharm.net/thumbnails.php?album=search&keywords=on&search=Vectra+3D>

Heartworm (*Dirofilaria immitis*)



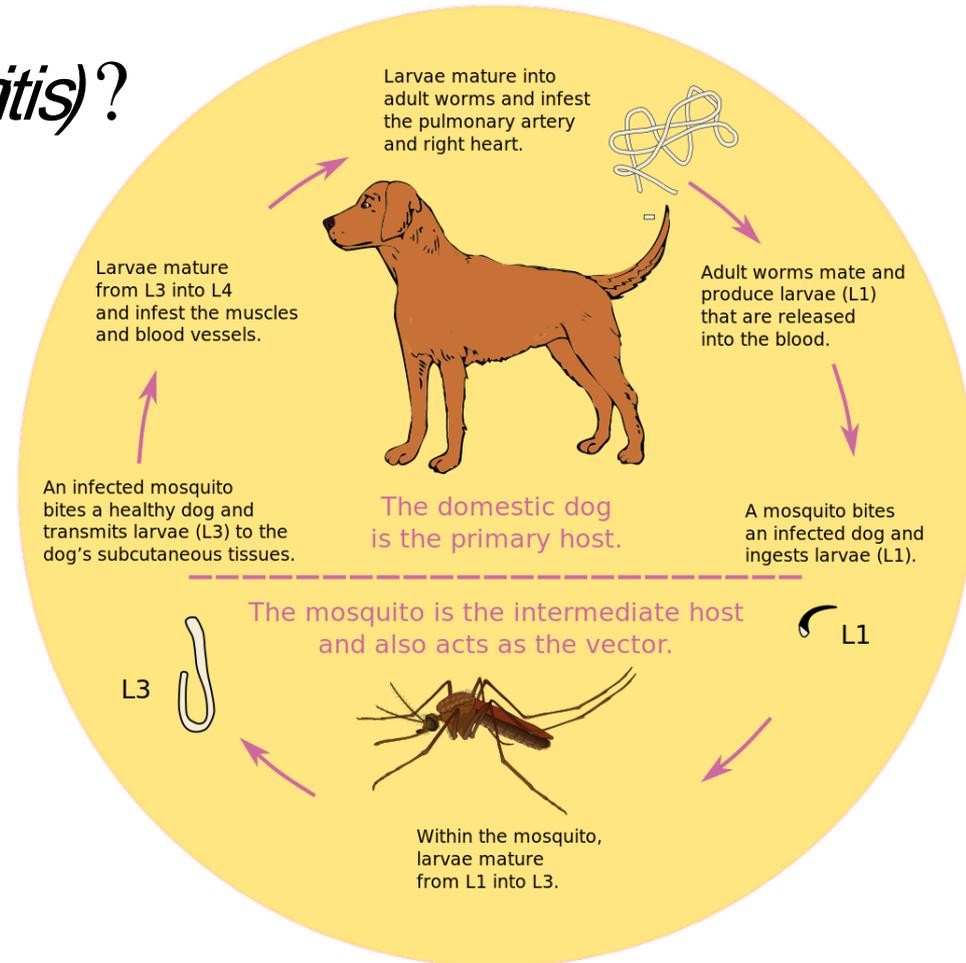
Why Heartworm (*Dirofilaria immitis*)?

- People care about dogs!
- Can also infect cats, coyotes, foxes, ferrets, sea lions, humans, etc.
- Even though improvements seen in preventatives, awareness and diagnostic tests, we are still seeing high incidence.



Why Heartworm (*Dirofilaria immitis*)?

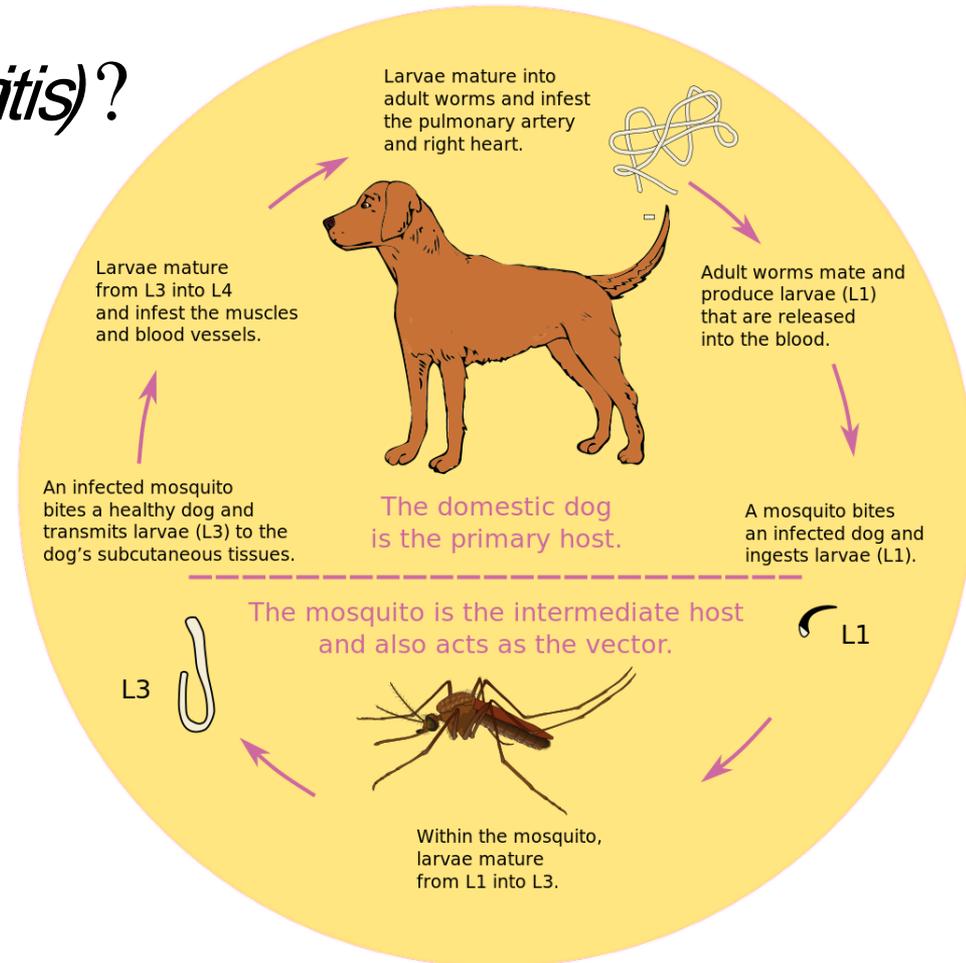
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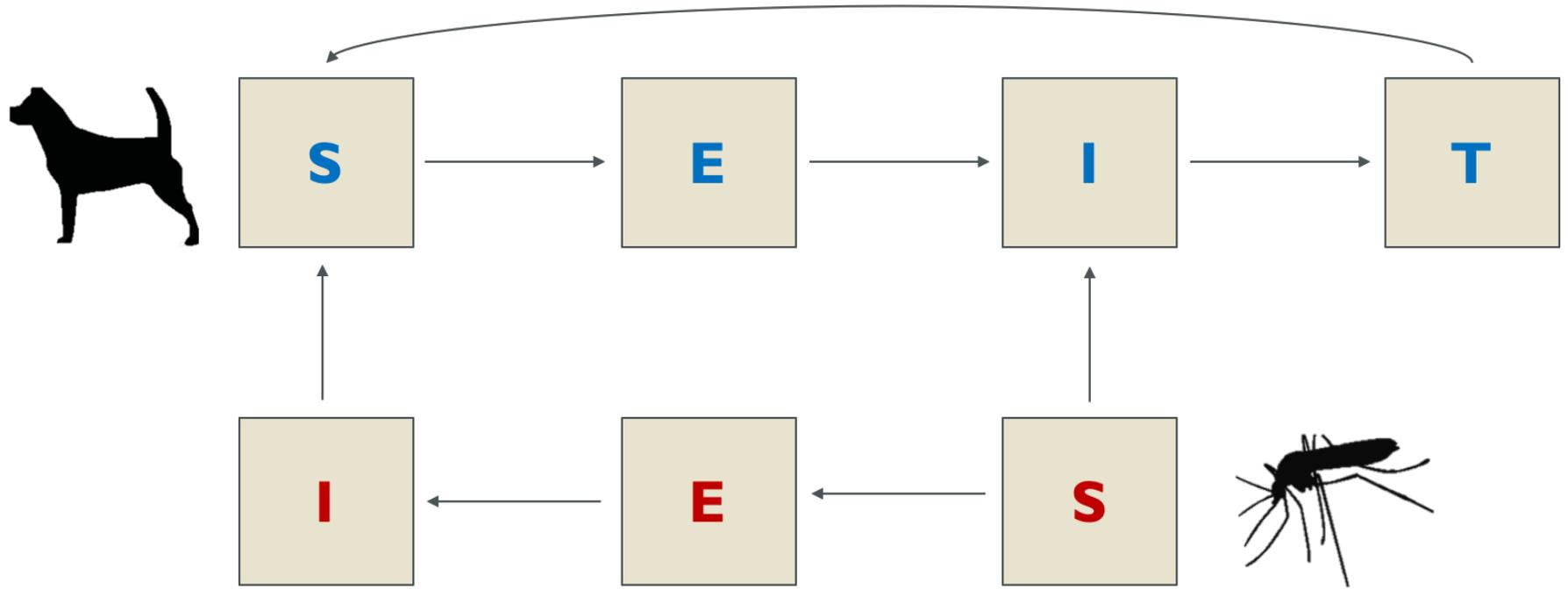
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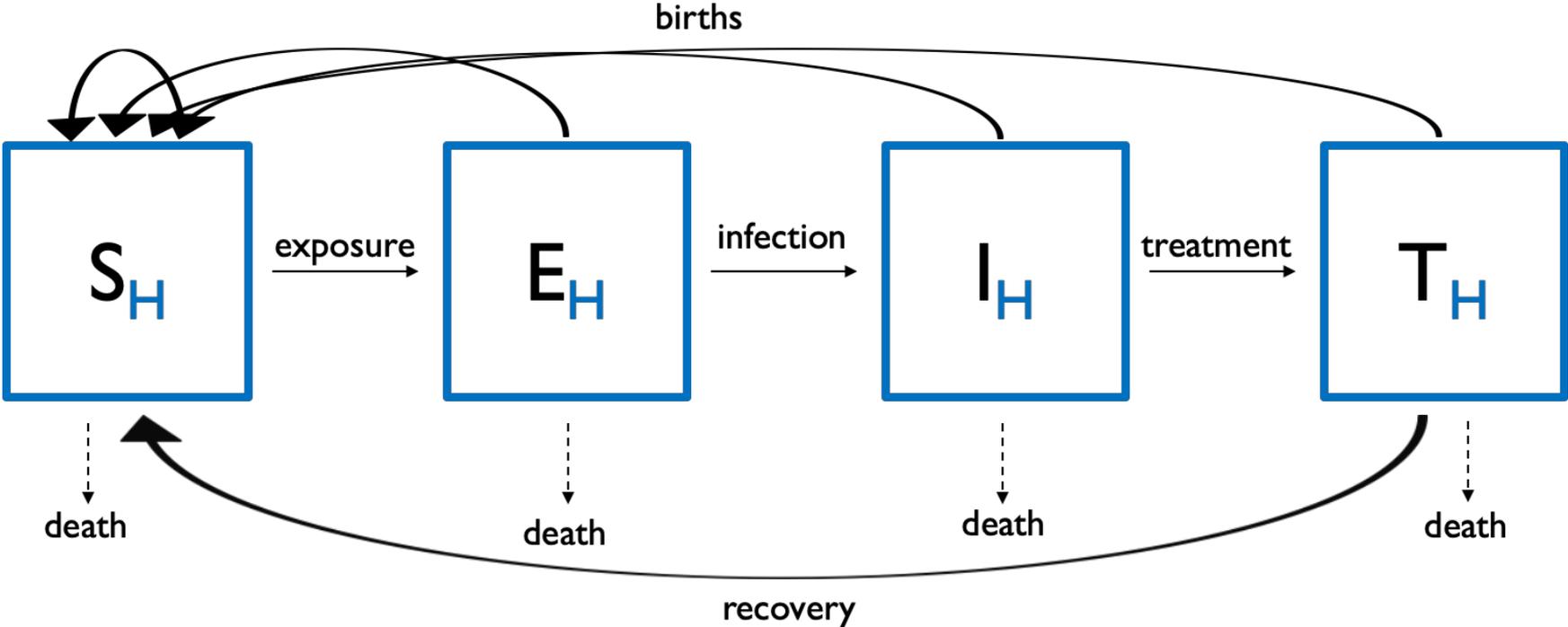
My role: Assess the performance and effectiveness of **Vectra3D[®]** through a mechanistic mathematical model.



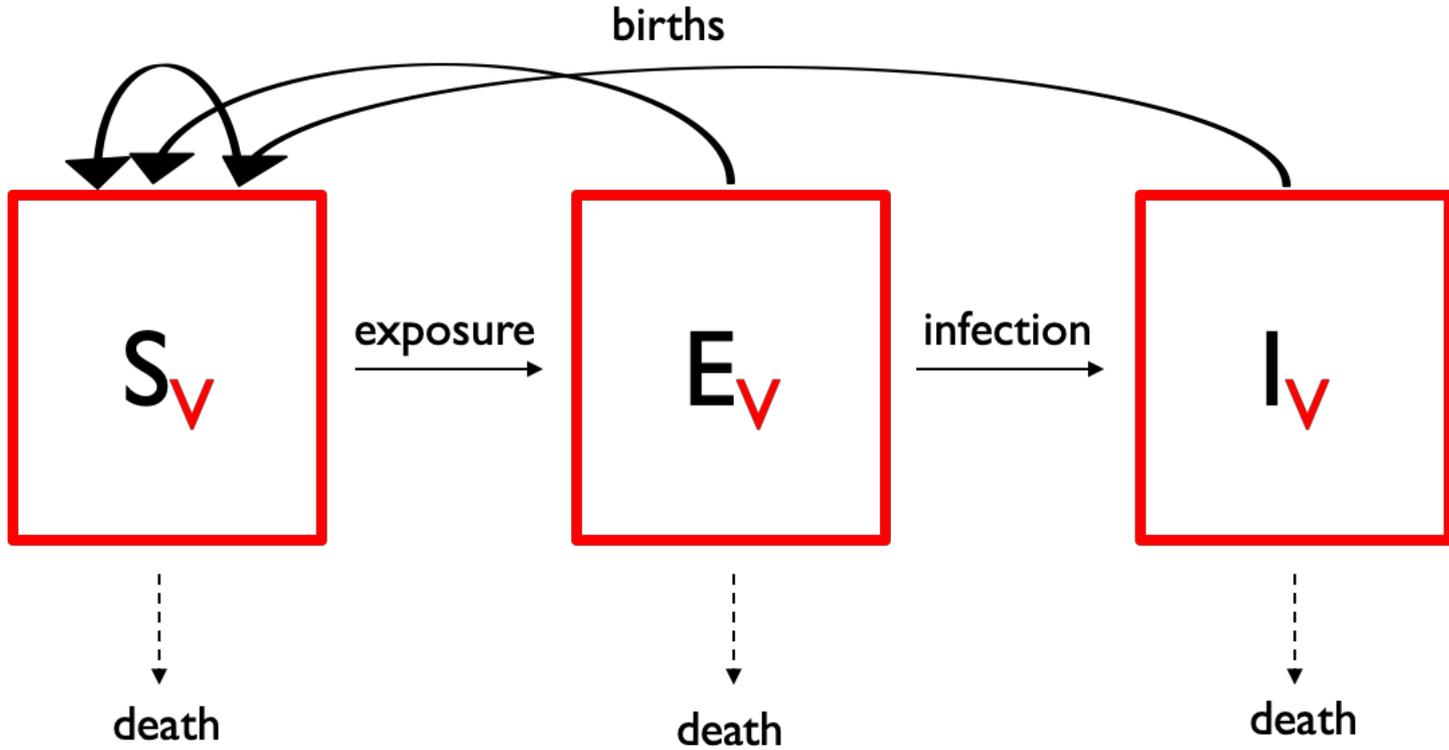
Compartmental Model



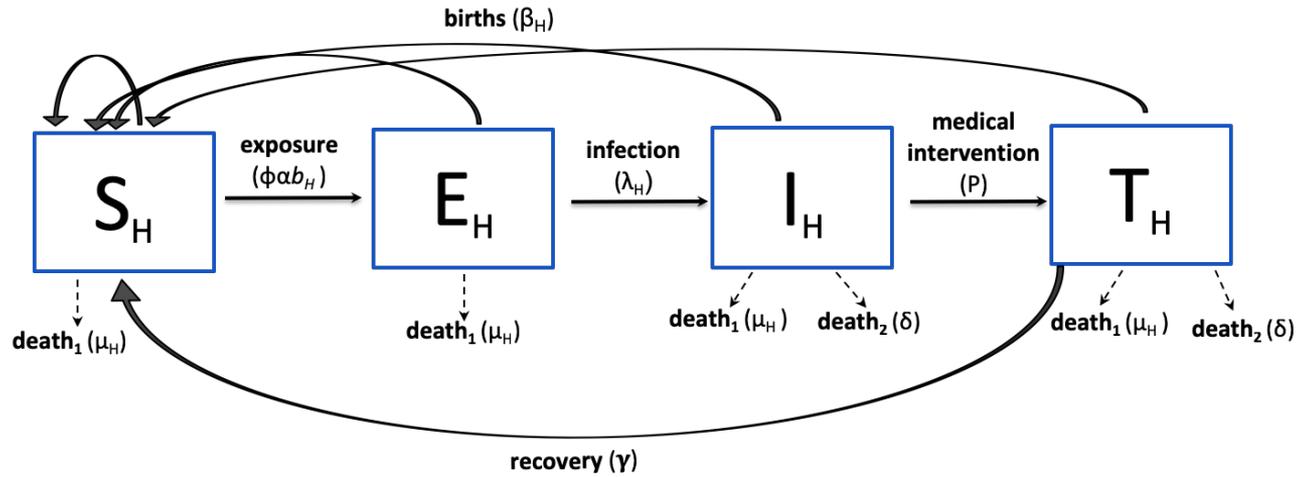
Host



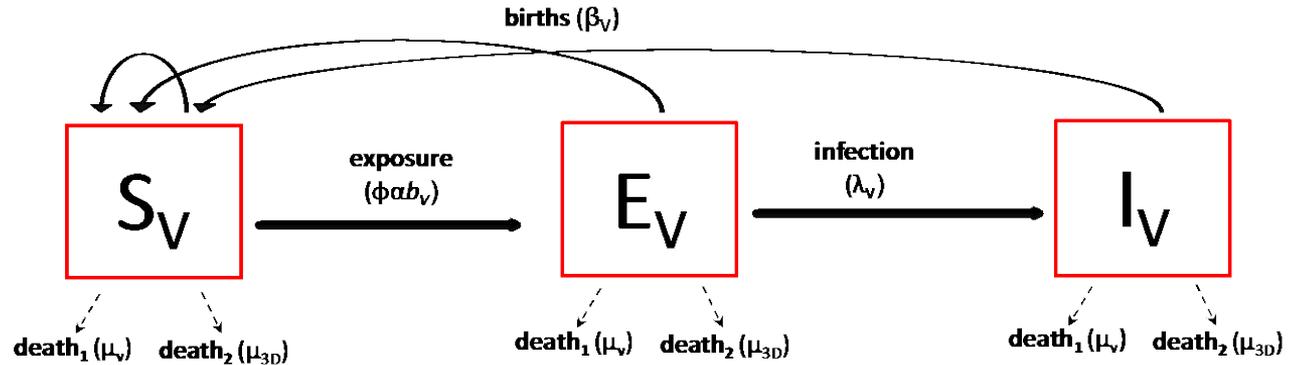
Vector



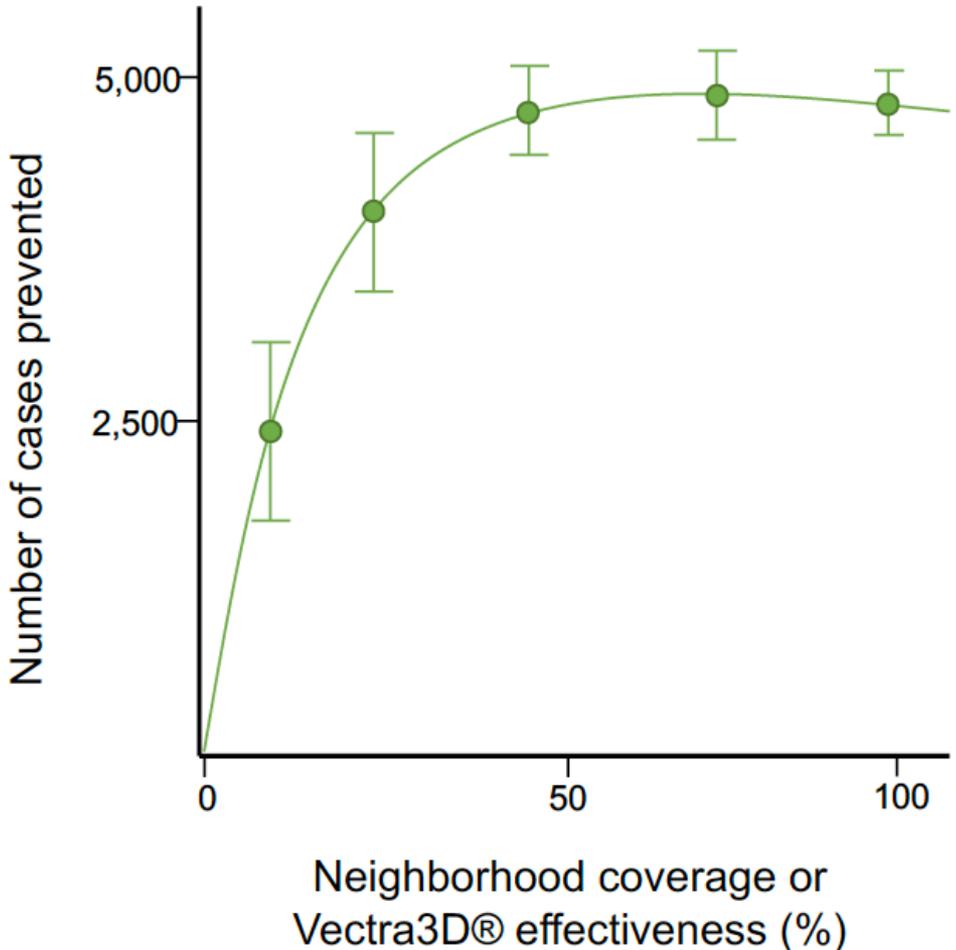
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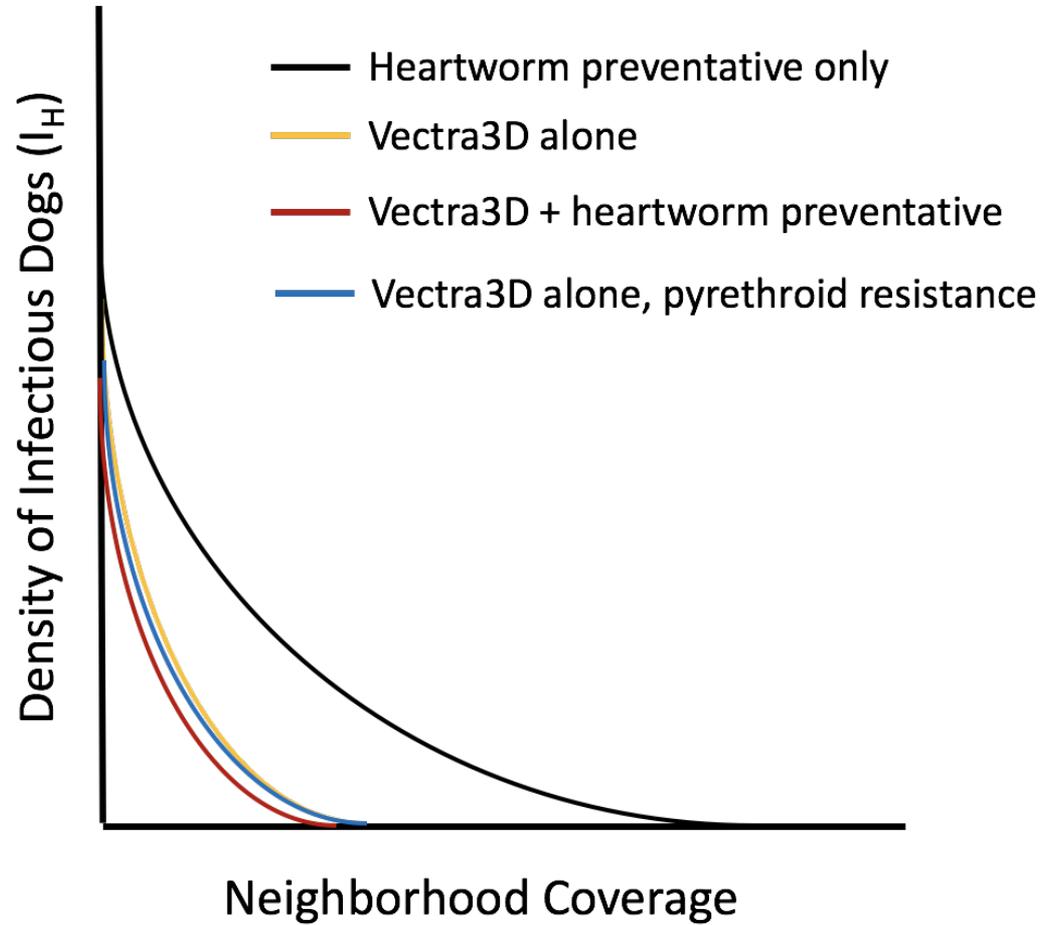
Vector



Hypothetical
model result



Hypothetical model result





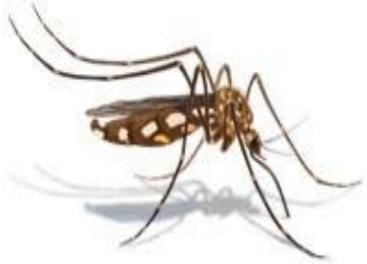
Mosquitoes not only suck,
they can also kill.

LEARN MORE ABOUT
THE IMPORTANCE
OF KILLING MOSQUITOES



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nsolano@uga.edu



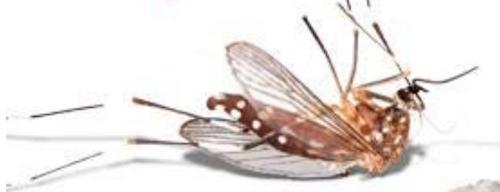
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Dog Wisdom: The only good
mosquito is a dead one.



LEARN MORE ABOUT HOW
MOSQUITOES TRANSMIT HEARTWORM



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What do Zika and heartworm
have in common?



FIND OUT HOW TO
STOP MOSQUITOES

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Thank you!

Ceva Animal Health
Murdoch Lab
Drake Lab



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What do Zika and heartworm
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This
girl.

FIND OUT HOW TO
STOP MOSQUITOES

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