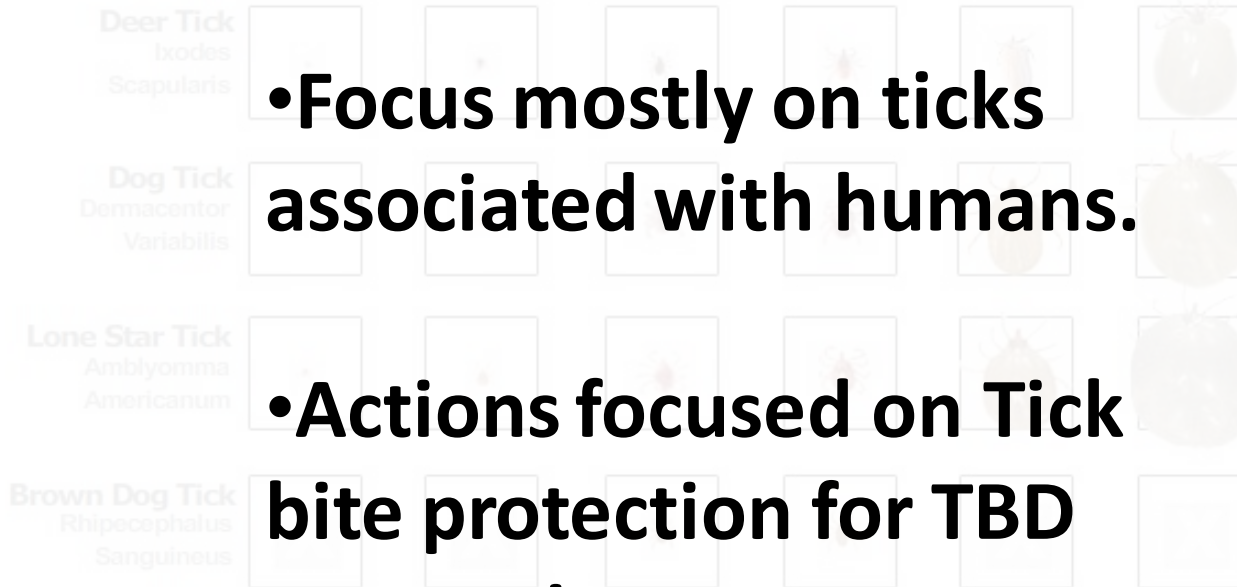


Click the text on the left for more information on specific species.

Focus: Tick Bite Protection & Tick Control

•Focus mostly on ticks associated with humans.

•Actions focused on Tick bite protection for TBD prevention.



Current Region :
Northeast United States



*No image is available at this time:

Major Gaps In Knowledge

Spatial and temporal targeting

- coarse scale (county); fine scale (community)

Efficacy of repellents against Aa

- standardized testing protocols for repellents
- need for more consumer-friendly products?

Target audience(s)

- Current knowledge, attitudes and practices



Questions for Ecology/Biology

What is seasonal phenology of different stages of Aa, Dv, Is in the south?

How uniform? Can we develop a geo-referenced “tick season” calendar?

Is it possible to combine tick distribution and human epi data to inform geographical dimensions of tick bite and TBD concerns?

Time to transmission of HME, RMSF?

Tick attachment surveys

- GA, NC, VA

Tick surveillance surveys

- VA, TN

Critical to ensure equal representation of effort in rural, suburban, urban settings

Issue: Managing tick bite exposure

First line effort – repellents for passive personal protection

Are existing products acceptable? **We have DEET, Permethrin**

Is there a need for more consumer-friendly replacements?

Is more testing needed? Efficacy against Aa, Is

Standardized product testing under development [USDA/EPA]

Who are target audiences?

Hunters are already aware of tick bite protection

Targeting message to other groups; what groups;

HME patients at risk (>50 yo)

Favor strategies that are EASY, FUN, POPULAR

BuzzOff/Insect Shield - Clothing with protection built in

Demonstration projects with large groups

West Point Military Cadets, NC DEP workers

Issue: Safe tick removal/after bite management

Make appropriate tools readily available to end users

CVS – quality pointy tweezer program \$4.99 at counter

fun strategies--Duct tape for removing seed ticks

“How to ...” animations effective supporting tools

Try and get appropriate retailers to group appropriate tick bite protection products in retail setting

Area-Wide Treatments



Broadcast

- **sprays**
- **granules**
- **Chemical**
- **Biological**

Probably effective against Aa, Dv, Is, in urban, suburban, rural settings
Barrier treatments not likely to be sufficient
Unanswered issues about timing, number of treatments

Encourage PCOs to add tick control to renewal contract work
Encourage research to develop attractants/arrestants + pesticides
Encourage more investigations on biological controls and other green products
set efficacy standard for inclusion in toolbox (ie. 80%)

Area-Wide Treatments



Targeted

4 poster

Effective against Aa, Not effective for Dv
limited by costs (implementation problem), State regs,
likely useful in certain applications

Bait box

Not effective against Aa, Dv ... Possibly useful for Is
very expensive, logistic issues, marketing to homeowners challenging
product under re-development

Ivermectin-treated baits

More research needed, implementation issues

Host-reduction/exclusion

May be useful in limited settings (ie. Communities, reserves, etc)
Deer mgmt strategies needed for urban, suburban settings
Deer resistant plant lists posted on internet resource site

Habitat Management

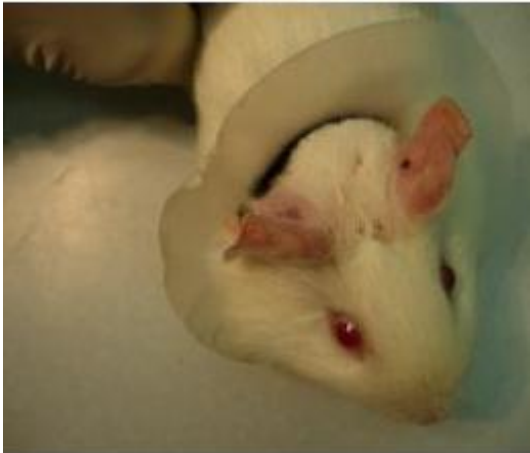
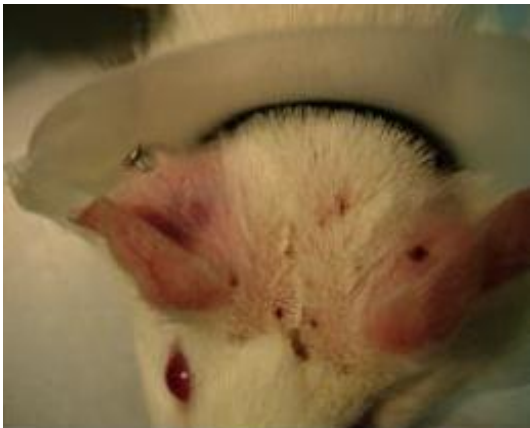
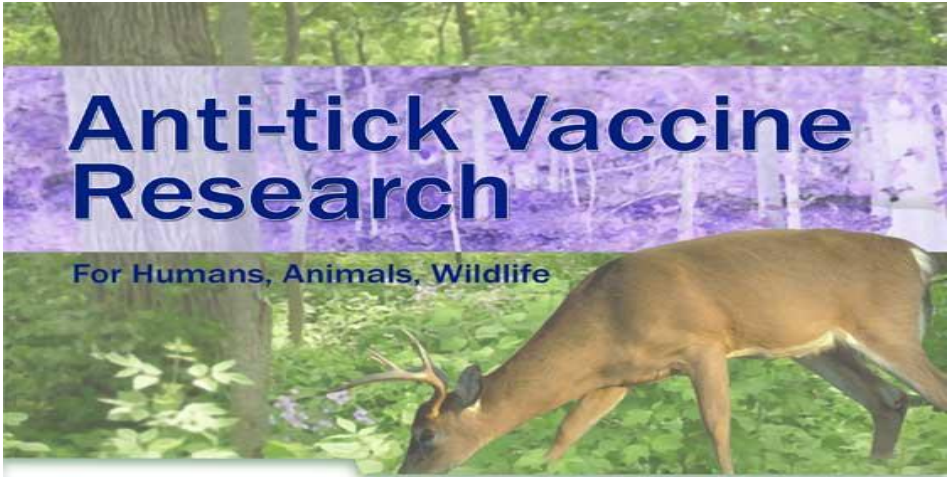


control burning works (military rs) but is not applicable in most residential settings

More research needed on tickscaping for Aa, Dv.

Mowing tall grass may be beneficial.





Health Communications



Overcoming barriers to implementation

Lack of perception about tick-borne diseases other than Lyme Disease

Costs (risk-benefit)

Safety concerns due to use of pesticides (risk-benefit)

**Environmental
Health**



DECISIONAL ROAD MAP

Conduct Audience Research

- develop baseline
- VA, GA, NC, MO
- CDC to coordinate



Identify barriers to implementation

Think TICK...Take ACTION! Toolbox



Integrate protection strategies with information from user group surveys

Think TICK...Take ACTION! Toolbox



TickEncounter.org

Film Documentaries

Edutainment

Interactive Media



Promotions

Customized health promotion messages most likely tool to change behavior

**Local Communities Confront
The Tick Problem:**

**Developing sustainable tick
control solutions**



DRIVING A NEW VISION OF HEALTH

Encourage ASTHO to develop organizational manual similar to “Public Health Confronts the Mosquito: developing sustainable state & local mosquito control programs.”