

## Vectorborne Diseases North Carolina Update

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### Lyme in NC?

- Most reported cases are EM only
  - \_ One published outbreak. no evidence *B. burgdorferi*
- No evidence in Chatham County study
- No isolation of *B. burgdorferi* from any NC patient sample (skin bx) sent to CDC
- Sentinels
  - Children: NO reports of JRA-like clusters.
  - NC Dogs: 4/987 (0.4%) from 2001-3 compare to VA (8.7%). MD (14.4%). PA (25%);  $p < 0.008^2$

1. Kuldand et al Arch Int Med. 1997

2. Duncan et al. Vector-borne and Zoonotic Diseases. 2004

### Tickborne Disease in NC

- Rise in *Amblyomma* ticks -
  - Habitat changes
  - Human interactions
- Importance of Rickettsia and related species - Role of *R. amblyomma* in human disease
- Borreliosis
  - EM is STARI
    - ° Infectious disease vs allergic reaction?
  - Lyme disease is rare in NC