

Tick Borne Diseases

In New England



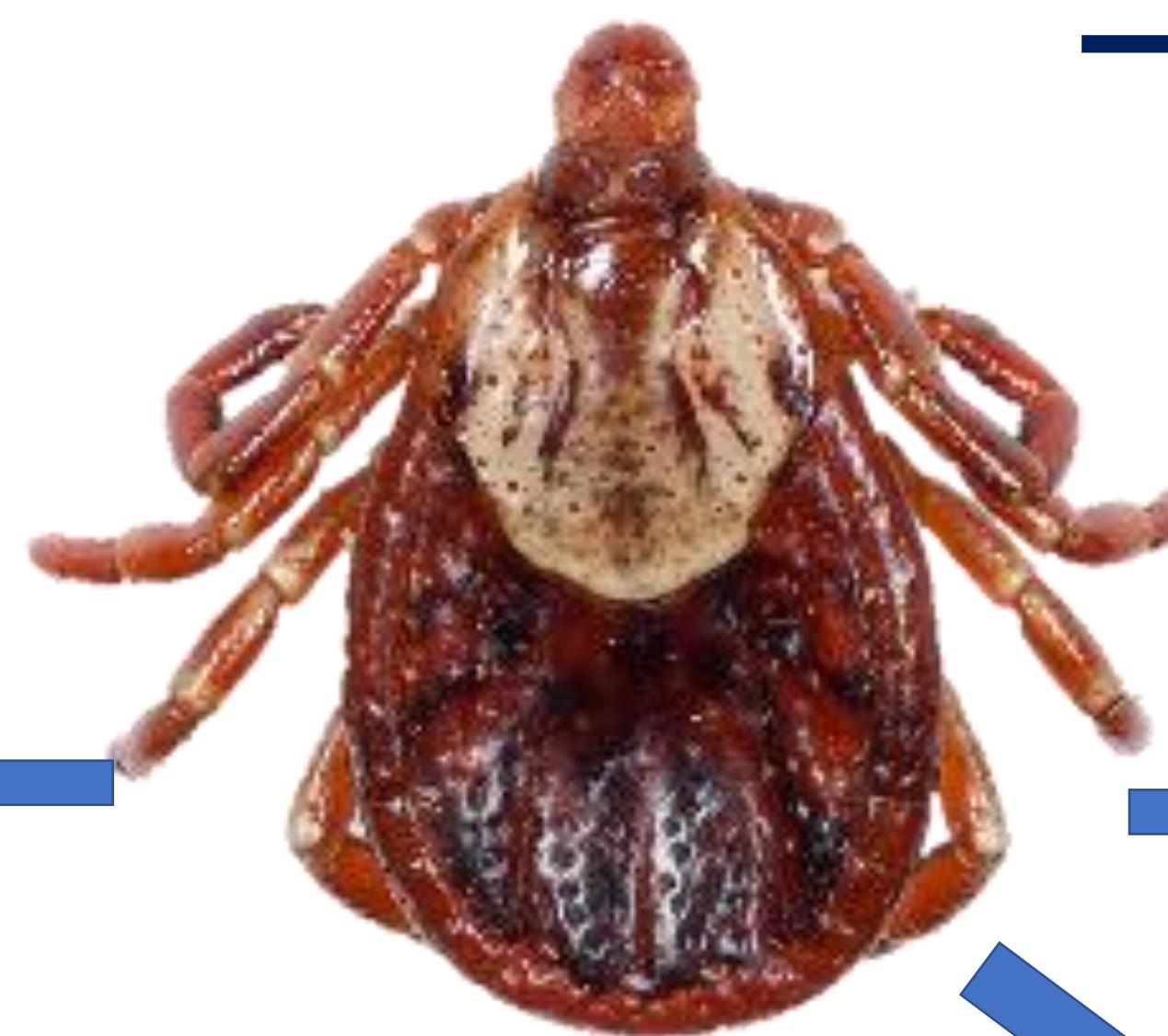
Bullseye rash- common symptom of Lyme disease and STARI



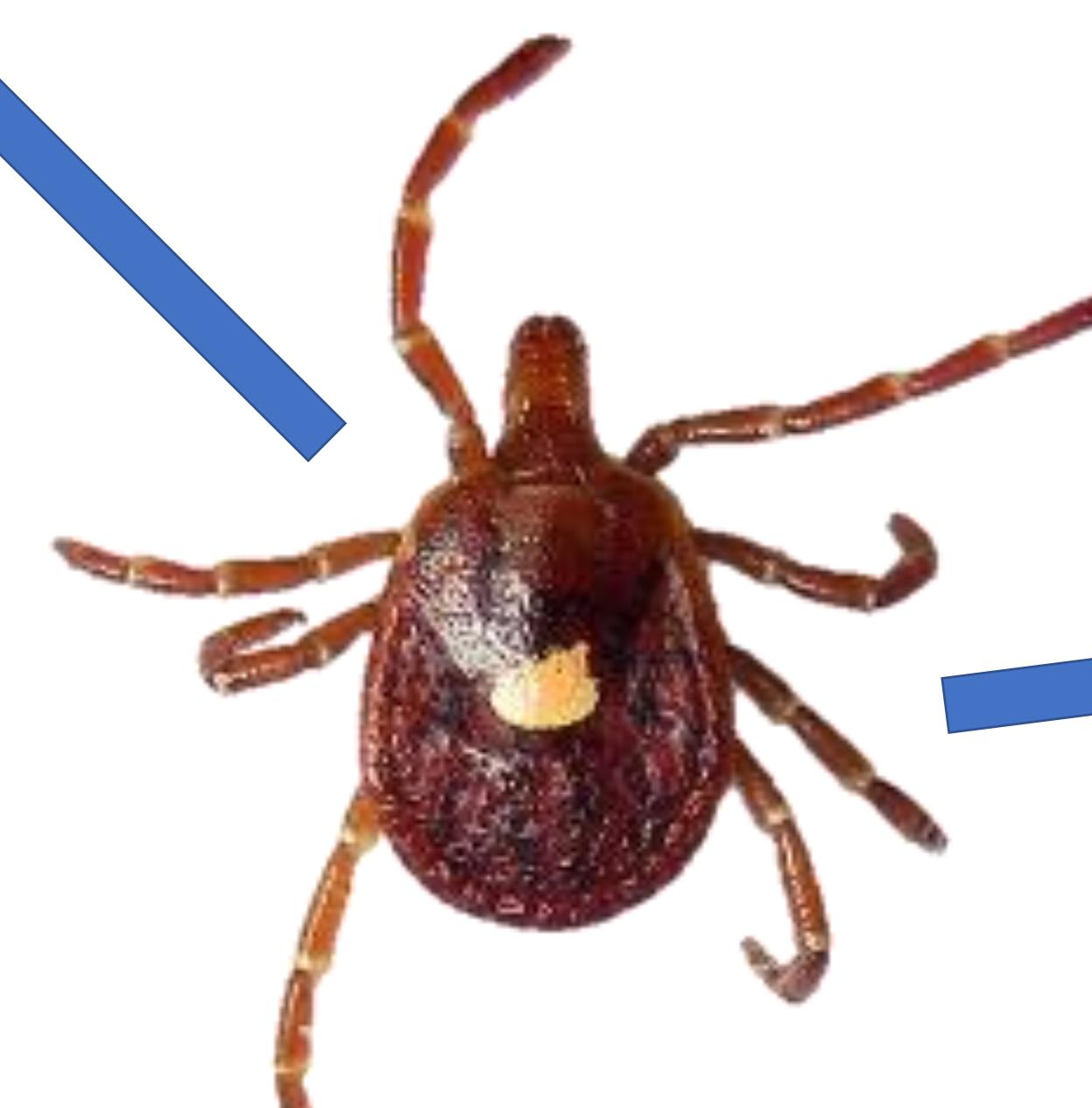
Skin lesions- common symptom of Tularemia

Tularemia

Agent: *Francisella tularensis*
Symptoms: fever, skin lesions in people, face and eyes redden and become inflamed, chills, headache, exhaustion
Affected Species: humans, rabbits, rodents, cats, dogs, sheep, many mammalian species



Dog Tick
(*Dermacentor variabilis*)



Lone star tick
(*Amblyomma americanum*)

Southern Tick-Associated Rash Illness (STARI)

Agent: *Borrelia lonestari*
Symptoms: "bullseye" rash, fatigue, muscle pains, headache
Affected Species: humans

Rocky Mountain Spotted Fever

Agent: *Rickettsia rickettsii*
Symptoms: fever, "spotted" rash, headache, nausea, vomiting, abdominal pain, muscle pain, lack of appetite, red eyes
Affected Species: humans, dogs

Brown Dog Tick

(*Rhipicephalus sanguineus*)



Ehrlichiosis

Agent: *Ehrlichia chaffeensis* and *Ehrlichia ewingii*
Symptoms: fever, headache, chills, muscle pain, nausea, vomiting, diarrhea, confusion, red eyes
Affected Species: humans, dogs, cats

Anaplasmosis

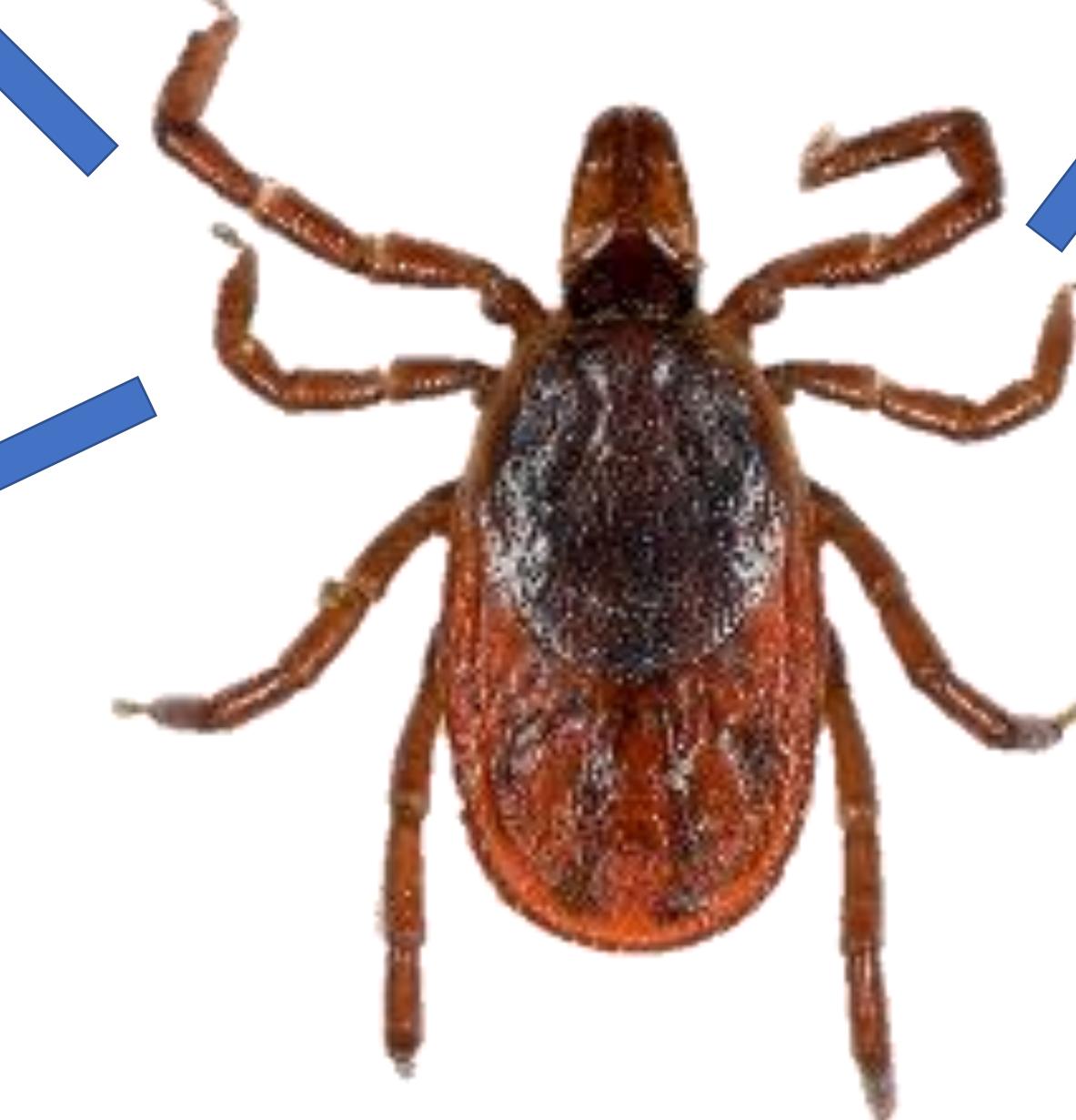
Agent: *Anaplasma phagocytophilum*
Symptoms: fever, severe headache, muscle aches, chills and shaking, nausea, vomiting, abdominal pain
Affected Species: humans, dogs, horses, cows

Babesiosis

Agent: *Babesia microti*
Symptoms: (many show none), fever, chills, sweats, headache, body aches, loss of appetite, nausea
Affected Species: humans

Lyme Disease

Agent: *Borrelia burgdorferi*
Symptoms: "bullseye" rash (humans only), fever, aching joints, headache, fatigue, neurological involvement
Affected Species: humans, horses, dogs, many others



Deer Tick
(*Ixodes scapularis*)

Borrelia miyamotoi Disease

Agent: *Borrelia miyamotoi*
Symptoms: fever, chills, headache, body and joint pain, fatigue
Affected Species: humans

Powassan Virus

Agent: Powassan Virus
Symptoms: (many show none), fever, headache, vomiting, weakness, confusion, loss of coordination, speech difficulties, seizures
Affected Species: humans