TICK-BORNE ILLNESS AND SYMPTOMS



TICKS CAN CAUSE

Lyme disease, anaplasmosis, ehrlichiosis, babesiosis, Powassan and Rocky Mountain spotted fever (rare in Rhode Island). Additionally, a tick bite can cause Alpha-gal Syndrome (AGS), a tick-associated condition that causes allergic reactions to the consumption of mammalian meats and mammalian made products.

COMMON SYMPTOMS

can include tiredness, body/muscle aches, joint pain, fever, rash, stiff neck, and facial paralysis. The type and severity of symptoms vary with the specific disease.

SYMPTOMS CAN START

as soon as a few days after being bitten or as late as a few months after a tick bite. Some people may have no symptoms at all.

EARLY DIAGNOSIS

is helpful in successfully treating tick-borne diseases. It is important to contact your healthcare provider if you are experiencing any of these symptoms.

AT-RISK POPULATIONS



People who spend recreational time outdoors



Pet owners



Outdoor workers



Gardeners

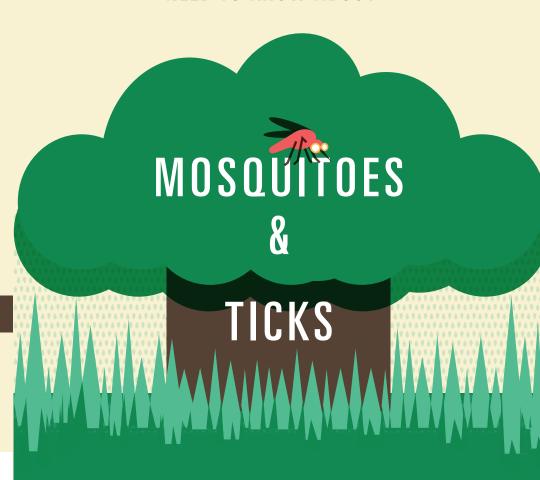
FOR MORE INFORMATION:

Everything You Need to Know About Mosquitoes & Ticks is part of the Rhode Island Department of Health's series, **Climate Change and Your Health: A Guide for Rhode Islanders.** To read the full booklet, visit www.health.ri.gov/climatechange.

www.health.ri.gov/ticks www.health.ri.gov/mosquito RIDOH Health Information Line: 401-222-5960



EVERYTHING YOU NEED TO KNOW ABOUT





MOSQUITOES

Climate change can cause heavier precipitation, longer warm seasons, and warmer winters. This can make the environment more hospitable to certain types of mosquitoes. Mosquitoes can carry or spread many diseases, including West Nile Virus (WNV), Eastern Equine Encephalitis (EEE), and Zika Virus. The species of mosquitoes that carry WNV and EEE are found in Rhode Island and bite until the first heavy frost (usually the end of October). The Aedes albopictus, also known as the Asian Tiger Mosquito, is one of the species of mosquitos that carry Zika, chikungunya, and Yellow Fever. This species is now established in parts of Rhode Island. Currently, the chance of this mosquito transmitting disease in Rhode Island is extremely low. It is much more likely for Rhode Islanders to encounter mosquitoes carrying these diseases while traveling in other areas.

PROJECTIONS



Climate change is expected to influence mosquitoes and the viruses they carry.

Changes in precipitation and temperature may alter the primary habitat and range of mosquitoes, and impact survival and spread of viruses transmitted from mosquitoes to humans.

West Nile Virus and Eastern Equine Encephalitis may become more common with climate change.





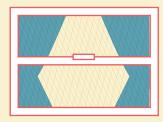
CLOTHING

When spending time outside during warm weather, wear long-sleeved shirts/pants whenever possible, especially if outside during dawn or dusk.



DUMP STANDING WATER

Remove any water from unused swimming pools, wading pools, boats, planters, trash and recycling bins, tires, and anything else that collects water, and cover them.



SCREENS

Put screens on windows and doors. Fix screens that have holes.



NETTING

Put insect netting over strollers and playpens.



BUG SPRAY

Use EPA-approved bug spray with one of the following active ingredients: DEET (20-30% strength), picaridin, IR3535, and oil of lemon eucalyptus or para-menthane-diol. Do not use DEET on infants.



CLEAN GUTTERS

Remove anything around your house and yard that collects water. Clean gutters and downspouts to ensure proper drainage.



EASTERN EQUINE ENCEPHALITIS

EEE symptoms include an abrupt onset of chills, fever, generally unhealthy feeling, joint pain, and muscle pain. Signs and symptoms in patients with encephalitis (brain inflammation) are fever, headache, irritability, restlessness, drowsiness, loss of appetite, vomiting, diarrhea, bluish discoloration, convulsions, and coma.



WEST NILE VIRUS

Severe West Nile Virus symptoms can include high fever, headache, neck stiffness, stupor, disorientation, coma, tremors, convulsions, muscle weakness, vision loss, numbness, and paralysis. Milder symptoms can include fever, headache, body aches, nausea, vomiting, swollen lymph glands, or rash on the chest, stomach, and back.



ZIKA VIRUS

Common symptoms of Zika include fever, rash, joint pain, headache, muscle pain, and pink eye. Zika can also be spread from pregnant mothers to their unborn children, and can cause birth defects.

AT-RISK POPULATIONS



Anyone who works or plays outdoors, such as athletes, hikers, gardeners, and landscapers



Elderly



Pregnant women (Zika virus)



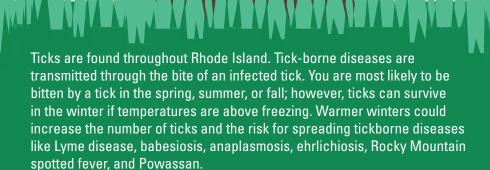
Children



Anyone with a weakened immune system



Travelers (Zika virus)



Ticks can be infected with bacteria, viruses, or parasites. If you are bitten by an infected tick, you may become infected. Ticks usually are found in tall grass and leafy areas and often attach themselves to you in your armpits, groin, waistline, or in your hair.

DATA AND PROJECTIONS

2,000 +

CASES PER YEAR

Lyme disease is extremely common in Rhode Island.



In 2022, Rhode Island had the highest rate of Lyme Disease in the country.



Changing temperature and precipitation patterns could make conditions more hospitable for ticks.

2X

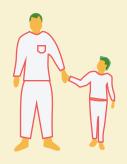


Washington County has the highest rate of Lyme disease in the state; nearly twice the rate of Newport and Bristol counties.

AVOID DIRECT CONTACT WITH TICKS



Avoid wooded and brushy areas with high grass and leaf litter and walk in the center of trails.



Wear long pants and long sleeves whenever possible. Wear light colored clothing so you can see the ticks more easily.



Tuck your pants into your socks so ticks don't crawl under your clothes.



Use products that contain permethrin on shoes and clothing.



When outdoors, use repellents containing 20% DEET, picaridin, IR3535, some oil of lemon eucalyptus or para-menthanediol. Follow the directions on the package.



Nymph . Adult Male . Adult Female .

CHECK FOR TICKS



Bathe or shower as soon as possible after coming indoors (preferably within 2 hours) to wash off and more easily find ticks that are crawling on you.

Conduct a full-body tick check using a hand-held or full-length mirror to view all parts of your body upon return from tick-infested areas.







Examine gear and pets. Ticks can ride into the home on clothing and pets, then attach to a person later, so carefully examine pets, coats, and day packs.

REMOVE TICKS FROM YOUR BODY

