

# Fact Sheet: Ticks

## 10. Ticks crawl up

Ticks don't jump, fly, or drop from trees onto your head and back. If you find one attached there, it most likely latched onto your foot or leg and crawled up over your entire body. Ticks are "programmed" to try and attach around your head or ears. On their normal hosts, ticks also usually crawl up; they want to blood feed around the head, neck, and ears of their host, where the skin is thinner and hosts have more trouble grooming.



## 9. All ticks (including deer ticks) come in small, medium and large sizes

Ticks hatch from eggs and develop through three active (and blood-feeding) stages: **larvae** (small-the size of sand grains); **nymphs** (medium-the size of poppy seeds); **adults** (large-the size of apple seeds). If you see them bigger, they're probably partially-full or full of blood.

## 8. Ticks can be active even in the winter

That's right! Adult stage deer ticks become active every year after the first frost. They're not killed by freezing temperatures, and while other ticks enter a feeding diapause as day-lengths get shorter, deer ticks will be active any winter day that the ground is not snow-covered or frozen. This surprises people, especially during a January thaw or early spring day. Remember this fact and hopefully you'll never be caught off-guard.



## 7. Ticks carry disease-causing microbes

Tick-transmitted infections are more common these days than in past decades. Scientists are finding an ever-increasing list of disease-causing microbes transmitted by these ticks including: Lyme disease bacteria, Babesia protozoa, Anaplasma, Ehrlichia, and other rickettsia, even encephalitis-causing viruses, and possibly Bartonella bacteria.



## 6. Only deer ticks transmit Lyme disease bacteria

The only way to get Lyme disease is by being bitten by a deer tick or one of its "cousins" found around the world. Dog ticks, Lone star ticks and other types of ticks don't transmit Lyme disease. While that's good news, it makes saving any tick that you find biting more important so you can identify it. Doing so may save a lot of unnecessary doctor visits and treatments.

# Fact Sheet: Ticks continued



## 5. For most tick-borne diseases, you have at least 24 hours to find and remove a feeding tick before it transmits an infection

Even a quick daily tick check at bath or shower time can be helpful in finding and removing attached ticks before they can transmit an infection. You'll probably want to check even more carefully if you know you've likely been exposed. Many of the disease-causing microbes transmitted by ticks need a "re-activation" period in the tick once it begins to feed. The germs eventually make their way into the tick's salivary glands and the tick spits them into you while feeding. Some infections, especially viruses, move into the tick salivary glands faster than others. Lyme disease bacteria take at least 24 hours to invade the tick's saliva.

## 4. Deer tick nymphs look like a poppy seed on your skin

And with about 1 out of 4 nymphal deer ticks carrying the Lyme disease spirochete and other germs in the northeastern, mid-Atlantic, and upper mid-western U.S., it's important to know what you're really looking for. They're easy to miss, their bites are generally painless, and they have a habit of climbing up (under clothing) and biting in hard-to-see places.

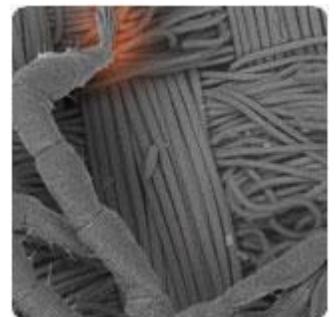


## 3. The easiest and safest way to remove a tick is with a pointy tweezer

Think of a tick as a little germ-filled balloon. Squeeze it too hard on its back end, and all the germs get pushed to the front end, which by the way, is attached to you by the tick's straw-like mouthpart. Using really pointy tweezers, it's possible to grab even the poppy seed-sized nymphs right down next to the skin. The next step is to simply pull the tick out like a splinter. Don't worry if the mouthpart stays in your skin as long as you've got the rest of the tick by its head. Other tick removal methods, like a hot match, Vaseline, dish soap and cotton, or various little key-like devices don't work as consistently as pointy tweezers on all types of ticks. Remember to save the tick and try to identify it (see # 6).

## 2. Clothing with built-in tick repellent is best for preventing tick bites

An easy way to avoid tick bites and disease is to wear clothing (shoes, socks, shorts or pants, and shirt) with permethrin tick repellent built-in. This strategy can be especially effective for protecting children. Dressing kids in tick repellent clothes every day is a safe and easy way to keep ticks from biting and transmitting disease. Commercially-treated tick repellent clothes last through at least **70 washes**, while using kits or sprays to treat your current outdoor wardrobe can last through 6 washes. Tick repellent on clothing, not skin is something everyone needs to know about to stay safe outdoors.



## 1. Tick bites and tick-borne diseases are completely preventable

There's really only one way you get a tick-transmitted disease and that's from a tick bite. Wearing tick repellent clothing every day, treating pets every month with tick repellent spot-on products, getting into a habit of doing a quick body scan for attached poppy-seed sized or larger ticks, and pulling ticks off quickly and safely are all great actions for preventing tick bites. **Remember these 10 things and you'll stay safer.**