Hungry ticks can use this static trick to land on you and your pets

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This photo provided by researcher Sam England in June 2023 shows a tick sitting on a flower. Hungry ticks have some slick tricks. They can zoom through the air using static electricity to latch onto people, pets and other animals, according to a study published Friday, June 30, 2023, in the journal *Current Biology*. Credit: Sam England via AP
Hungry ticks have some slick tricks. They can zoom through the air using static electricity to latch onto people, pets and other animals, new research shows.

Humans and animals naturally pick up static charges as they go about their days. And those charges are enough to give ticks a boost to their next blood meal, according to a study published Friday in the journal *Current Biology*.

While the distance is tiny, "it's the equivalent of us jumping three or four flights of stairs in one go," said study author Sam England, an ecologist now at Berlin's Natural History Museum.

Ticks are "ambush predators," explained Stephen Rich, a public health entomologist at the University of Massachusetts Amherst.

They can't jump or fly onto their hosts, he said. Instead, they hang out on a branch or a blade of grass with their legs outstretched—a behavior known as "questing"—and wait for people or animals to pass by so they can grab on and bite.

It seemed that ticks were limited to how far they could stretch on their "tippy toes," England said. But now, scientists are learning that static charges may help expand their reach.

"They can now actually end up latching onto hosts that don't make direct contact with them," he said.

The researchers looked at a species of tick called the castor bean tick, which is common across Europe. This bloodsucker and its cousins are major culprits in spreading diseases to animals and humans, including Lyme disease, and are most active in warm months.
A deer tick is viewed under a microscope in the entomology lab at the University of Rhode Island in South Kingstown, R.I., on March 2002. Hungry ticks have some slick tricks. They can zoom through the air using static electricity to latch onto people, pets and other animals, according to a study published Friday, June 30, 2023, in the journal *Current Biology*. Credit: AP Photo/Victoria Arocho, File

Researchers found that when they charged up electrodes and placed them near young ticks, the creatures would whiz through the air to land on those electrodes.

A normal level of static—the charge that fur, feathers, scales or clothes pick up with movement—could pull the critters across gaps of a fraction of an inch (a few millimeters or centimeters), according to the study. While those distances may seem small to us, for a tiny tick, they
represent a big leap, England said.

In the future, there might be ways developed to reduce that static, experts said. But for now, Rich said people should keep using classic tick prevention measures, including repellents, to keep themselves safe from bites.


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