DON’T LET ONE BITE CHANGE YOUR LIFE . .

A Guide to the use of Tick Repellents

The use of repellents can be a highly effective way to prevent tick bites and reduce the risk of getting any number of tick-borne diseases including Lyme, babesiosis, anaplasmosis, relapsing fever and Powassan virus.

Consumers should follow all label directions concerning application.

Deet - The most widely available active ingredient on the market. Protection times 1–10 hours. Product concentrations 7–100%.

American Acad. Pediatrics and Centers Disease Control: “Recommendation for children older than 2 months of age is to use 10% to 30% DEET. DEET should not be used on children younger than 2 months of age.”
Ex: Cutter, OFF!, 3M Ultrathon

Picaridin - Synthetic version of piperine, a chemical found in black pepper. Protection times 6–8 hours. Product concentrations 10–20%.
Ex: Avon Skin-So-Soft Bug Guard, Cutter Advanced, Natrapel

IR3535 - Beta-alanine, synthetic version of an amino acid. Protection times 2–12 hours. Product concentrations 7–20%.
Ex: Avon Skin-So-Soft, Coleman Skin Smart

Oil of Lemon Eucalyptus - Synthetic version of a natural plant oil. Protection time 6 hours. Product concentrations 30 – 40%. FDA: “Oil of lemon eucalyptus products should not be used on children under 3 years of age.”
Ex: Citrapel, Coleman Botanicals, Repel Essential

“Herbal” or Botanicals – A number of repellent products contain plant oils such as peppermint, lemongrass, cedar, rosemary and others. Their effectiveness against ticks or mosquitoes has not been documented. Some contain active ingredients that are known human allergens; they are not EPA registered.
**Permethrin** - For **application to clothing**, including footwear, NOT skin. Highly effective at repelling/killing ticks. Effectiveness lasts through multiple washings. Pre-treated clothing is also on the market. This is a good complement to skin-applied repellents.

There are a number of permethrin products designed for different applications. Consumers should be careful to select product specially formulated for application to outerwear/camping gear. Treating footwear during the summer months is very important since nymph stage ticks are found in the leaf litter...treat every 4 weeks.

Ex: *Ben’s, Coleman, Sawyer*

**Pet precautions** - These products should not be applied to pets. Use only products formulated for them. Good to check with veterinarian.

**EPA skin repellent selector tool:**

http://www2.epa.gov/insect-repellents/find-insect-repellent-right-you

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