

# HOW TO PROTECT AGAINST MOSQUITO BITES



**Zika virus is spread to people mainly through the bite of an infected mosquito. Mosquitoes that spread Zika virus bite mostly during the day, but they can also bite at night. The best way to prevent Zika is to protect yourself from mosquito bites.**

## Use insect repellent

Use [Environmental Protection Agency \(EPA\)-registered](#) insect repellents with one of the following active ingredients: DEET, picaridin, IR3535, oil of lemon eucalyptus or para-menthane-diol, or 2-undecanone. Always follow the product label instructions.



- When used as directed, these insect repellents are proven safe and effective even for women who are pregnant or breastfeeding.
- Reapply insect repellent as directed.
- Do not spray repellent on the skin under clothing.
- If you are also using sunscreen, apply sunscreen first.
- The effectiveness of non-EPA registered insect repellents, including some natural repellents, is not known.

## If you have a baby or child

- Do not use insect repellent on babies younger than 2 months old.
- Do not use products containing oil of lemon eucalyptus or para-menthane-diol on children younger than 3 years old.
- Dress your child in clothing that covers arms and legs.
- Cover crib, stroller, and baby carrier with mosquito netting.
- Do not apply insect repellent onto a child's hands, eyes, mouth, and any cut or irritated skin.
  - » Adults: Spray insect repellent onto your hands and then apply to a child's face.



## Active ingredient

Higher percentages of active ingredient provide longer protection

DEET

Picaridin (known as KBR 3023 and icaridin outside the US)

IR3535

Oil of lemon eucalyptus (OLE) or para-menthane-diol (PMD)

2-undecanone



Find the insect repellent that's right for you by using [EPA's search tool\\*](#).

\* The EPA's search tool is available at: [www.epa.gov/insect-repellents/find-insect-repellent-right-you](http://www.epa.gov/insect-repellents/find-insect-repellent-right-you)

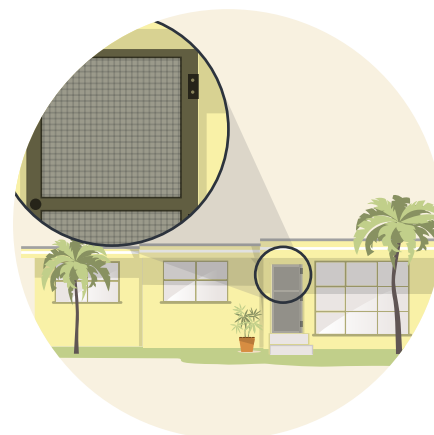


### Control mosquitoes outside your home

- **Once a week**, empty and scrub, turn over, cover, or throw out any items that hold water like tires, buckets, and planters.
- Tightly cover water storage containers (buckets, rain barrels, etc.).
- For containers without lids, use wire mesh with holes smaller than an adult mosquito.
- Use larvicides to treat large containers of water that will not be used for drinking and cannot be covered or dumped out.
- Use an outdoor flying insect spray in dark humid areas where mosquitoes rest, like under patio furniture, or in the carport or garage. When using insecticides, always follow label instructions.
- If you have a septic tank, repair cracks or gaps. Cover open vent or plumbing pipes using wire mesh with holes smaller than an adult mosquito.

### Control mosquitoes inside your home

- Keep windows and doors shut and use air conditioning when possible.
- Use, install, or repair window and door screens.
- **Once a week**, empty or throw out any items that hold water like vases and flowerpot saucers.
- Use an indoor flying insect fogger\* or indoor insect spray\* to kill mosquitoes and treat areas where they rest. These products work immediately, but may need to be reapplied. Always follow label directions.
- Only using insecticide will not keep your home free of mosquitoes.
- Sleep under a mosquito bed net if you are outside or in a room that is not well screened.
  - » Choose a WHO Pesticide Evaluation Scheme (WHOPES)-approved bed net (like Pramax\*): compact, white, rectangular, with 156 holes per square inch, and long enough to tuck under the mattress.



### Do-It-Yourself Products

| Product                     | Active ingredient                 | Brand name examples**                                   | How long it works |
|-----------------------------|-----------------------------------|---|-------------------|
| Indoor flying insect spray  | Imidacloprid, $\beta$ -Cyfluthrin | Home Pest Insect Killer, Raid, Ortho, HotShot, EcoLogic | 7-10 days         |
| Indoor flying insect fogger | Tetramethrin, Cypermethrin        | Hot Shot, Raid, Real Kill, Spectracide                  | Up to 6 weeks     |

\*\*Insecticide brand names are provided for your information only. The U.S. Department of Health and Human Services and Centers for Disease Control and Prevention cannot recommend or endorse any name brand products.