

update

Date: Feb. 4, 2016

# Transmission:

- The transmission of the Zika virus is through mosquito bites.
- Zika virus is transmitted to people primarily through the bite of an infected Aedes species mosquito. Known by the white-striped pattern on its legs, this mosquito species is a vector for various tropical diseases including dengue, chikungunya and, more recently, Zika.

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- They are aggressive daytime biters, prefer to bite people, and live indoors and outdoors near people.
- Spread of the virus through blood transfusion and sexual contact has been reported.

## Symptoms:

One in five (20%) people infected with Zika virus become symptomatic but usually with mild symptoms. These may occur 2-7 days after the mosquito vector bite. Symptoms lasts no more than one week and may include the following:

- mild fever
- skin rash or redness (covered by elevated bumps)
- headaches
- arthralgia (joint stiffness)
- myalgia (episode or zones of muscular pain)
- asthenia (lack of energy or loss of strength)
- · conjunctivitis (pink eye inflammation of the eye & inner surface of the eyelids, redness and discharge)

## **Treatment:**

Zika is an acute infection. CDC recommends the following treatment: seeing a physician, hydrating, taking acetaminophen-Tylenol to lower fever and reduce pain, and rest. However, aspirin or other anti-inflammatory medications, like ibuprofen or naproxen, **should be avoided** until the patient is tested to rule out Dengue fever.

Ongoing research for development of a Zika vaccine has been reported, but in the world of medical research, this could take "three to five years."





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# **Prevention:**

Following guidelines by the CDC and Miami-Dade County, these are steps to prevent the Zika virus. What each person does in his/her surroundings become the first line of defense against the virus.

#### Drain: (this applies to residences, businesses, government facilities, parks, etc.)

- According to the South Florida Water Management, November 2015 to January 2016 has been the wettest for this 3-month period in S. Florida since at least 1932. This unusual amount of rain can be ideal for mosquitoes to breed.
- Drain all standing water around the yard. Mosquitoes need only a surprisingly small amount of water to breed. Empty cans, buckets, garbage cans, house gutters, flower pots, bromeliads and other plants that hold water, bottles, toys, plastic "kiddie" pools, lids, old tires, pool covers, barrels and any other container or item that holds or can hold water.
- If you have a boat, turn it upside down if it's small enough, or cover it if it's too large to turn. Just make sure the boat cover doesn't also hold water.
- If you have a swimming pool, make sure to maintain it properly and run the pump every so often as mosquitoes do not like to breed in moving water.
- Twice a week, make sure to empty or rinse out bromeliads and other plants that hold water, pets' water bowls and birdbaths.

#### Cover:

- Make sure your doors and windows are covered with screens to keep mosquitoes out of your house. Protect infants with mosquito netting.
- Avoid going outside when mosquitoes are most active, at dawn and dusk. If you do have to be outside, cover yourself up by wearing loose, light-colored clothing (preferably long pants and long sleeves), shoes and socks.
- Use a repellent when you go outside. Follow the directions on the label. The best repellents use DEET or picaridin as the active ingredient.

Miami-Dade County's Mosquito Control Unit conducts numerous mosquito inspections and spraying operations throughout the County to help keep down the volume of mosquitoes. To request a mosquito inspection or to report a mosquito nuisance, the public is encouraged to call 3-1-1. Information on mosquito control in Miami-Dade County can be found on this link <u>www.miamidade.gov/solidwaste</u>.

#### Follow travel alerts:



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- CDC has issued a travel notice (Level 2-Practice Enhanced Precautions) for people traveling to regions and certain countries where Zika virus transmission is ongoing.
- This alert follows reports in Brazil of microcephaly and other poor pregnancy outcomes in babies of mothers who were infected with Zika virus while pregnant. However, additional studies are needed to further characterize this relationship. More studies are planned to learn more about the risks of Zika virus infection during pregnancy.
- Until more is known, and out of an abundance of caution, the CDC recommends special precautions for pregnant women and women trying to become pregnant.
- Pregnant women in any trimester should consider postponing travel to the areas where Zika virus transmission is ongoing.
- Women trying to become pregnant should consult with their healthcare provider before traveling to these areas and strictly follow steps to prevent mosquito bites during the trip.
- More information on Zika virus and pregnancy can be found at <a href="http://www.cdc.gov/zika/pregnancy/question-answers.html">http://www.cdc.gov/zika/pregnancy/question-answers.html</a>
- Avoid travel to the following countries especially if the person is pregnant or planning to become pregnant:

World map showing countries and territories with reported active transmission of Zika virus (as of February 4, 2016). Countries are listed in the table below.



AMERICAS:



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Barbados Bolivia Brazil Colombia Commonwealth of Puerto Rico, US territory Costa Rica Curacao Dominican Republic Ecuador El Salvador French Guiana Guadeloupe Guatemala Guyana Haiti Honduras Jamaica Martinique Mexico Nicaragua Panama Paraguay Saint Martin Suriname U.S. Virgin Islands Venezuela

#### **OCEANIA/PACIFIC ISLANDS:**



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AFRICA:

American Samoa Tonga Samoa

Cape Verde

Specific CDC travel notices can be found in the following link:

http://wwwnc.cdc.gov/travel/page/zika-travel-information

Note: As of January 27, 2016, according to news reports, both American Airlines and United have been offering refunds.

Zika in the United States and its territories:

- Locally transmitted Zika virus has been reported in the Commonwealth of Puerto Rico.
- One locally transmitted virus has been reported in Texas through sexual contact.
- Cases have been reported in returning travelers. Of the Nine cases reported in Florida, four are in Miami-Dade County. Gov. Scott declared a public health emergency management on Feb. 3. As of Feb. 4 counties include Miami-Dade and Broward.
- With the recent outbreaks, the number of Zika cases among travelers visiting or returning to the United States will likely increase.
- These imported cases could result in local spread of the virus in some areas of the United States.

## **Outreach:**

Given the demographics of the City of Doral and the touristic and commerce ties with South American and Caribbean countries, on the week of January 25, 2016 the Office of Emergency Management began posting information on the Zika CDC travel alerts to those countries on the city's social media platforms. In addition, information from the CDC and Miami-Dade County has also been shared regarding prevention tips to avoid mosquito bites.



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The information can be found in the following links:

Miami-Dade County Mosquito Control: http://www.miamidade.gov/solidwaste/mosquito-control.asp

World Health Organization (WHO) on Zika virus: <u>http://www.who.int/topics/zika/en/</u>

Centers for Disease Control and Prevention (CDC): <u>http://www.cdc.gov/Zika/</u> (including a video on Zika virus)

Doral TV will run the CDC Zika virus video. The duration of the program is 2 minutes and 52 seconds.

The video can be found at this link: https://youtu.be/iOm15/yWlwo

All updated information will be provided to Public Affairs with the purpose of creating a webpage to keep the public informed.

## **City Departments' Actions:**

Employees in the field from Departments such as Public Works, Parks and Recreation, Code Enforcement, Building, Police, etc. should follow prevention tips including use of insect repellents while working in the field and report any incident of standing water that are potential breeding grounds for mosquitoes.

Parks and Recreation will post flyers in their facilities and provide information to park programs participants regarding prevention from mosquito bites.

The following fact sheets will also be distributed or posted by HR at Government Center.

The Police Department will distribute the information to HOAs and Business Associations.

The flyers include information in Spanish:



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file:///C:/Users/frenchn.DORALPD/Desktop/safe%20travel.mos.qxp\_01-16.pdf

http://www.cdc.gov/zika/pdfs/fs\_mosquito\_bite\_prevention\_travelers\_spanish.pdf

file:///C:/Users/frenchn.DORALPD/Desktop/mos.prevention.qxp\_02-16.pdf

http://www.cdc.gov/chikungunya/pdfs/factsheet\_mosquito\_bite\_prevention\_us\_spanish.pdf

http://www.cdc.gov/zika/pdfs/control\_mosquitoes\_chikv\_denv\_zika.pdf

http://www.cdc.gov/zika/pdfs/control\_mosquitoes\_chikv\_denv\_zika\_spanish.pdf

The Office of Emergency Management continues communication with the County's OEM while monitoring the situation especially since the World Health Organization (WHO) declared an international state of emergency on Monday, February 1, 2016.

WHO statement on the first meeting of the International Health Regulations (2005) (IHR 2005) Emergency Committee on Zika virus and observed increase in neurological disorders and neonatal malformations http://www.who.int/mediacentre/news/statements/2016/1st-emergency-committee-zika/en/

WHO Director-General summarizes the outcome of the Emergency Committee regarding clusters of microcephaly and Guillain-Barré syndrome <a href="http://www.who.int/mediacentre/news/statements/2016/emergency-committee-zika-microcephaly/en/">http://www.who.int/mediacentre/news/statements/2016/emergency-committee-zika-microcephaly/en/</a>

Following are flyer samples in English and Spanish:

For printing purposes please open links to pdf formats provided above.



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### Action Plan – Zika Virus – Prevention, Preparedness and Outreach





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## Action Plan – Zika Virus – Prevention, Preparedness and Outreach

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#### FloridaHealth.gov • Florida Department of Health





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# Mosquito Bite Prevention for Travelers

Mosquitoes spread many types of viruses and parasites that can cause diseases like chikungunya, dengue, Zika, and malaria. If you are traveling to an area where malaria is found, talk to your healthcare provider about malaria prevention medication that may be available.

#### Protect yourself and your family from mosquito bites. Here's how:

#### Keep mosquitoes out of your hotel room or lodging

- · Choose a hotel or lodging with air conditioning or screens on windows and doors.
- Sleep under a mosquito bed net if you are outside or in a room that is not well screened. Mosquitoes
  can live indoors and will bite at any time, day or night.
- Buy a bed net at your local outdoor store or online before traveling overseas.
   Choose a WHOPES-approved bed net (like Pramax\*): compact, white, rectangular,
- with 156 holes per square inch, and long enough to tuck under the mattress. > Permethrin-treated bed nets provide more protection than untreated nets.
- · Permethrin is an insecticide that kills mosquitoes and other insects.
- Do not wash bed nets or expose them to sunlight. This will break down the insecticide more quickly.
- » For more information on bed nets: www.cdc.gov/malaria/malaria\_worldwide/reduction/itn.html

#### Cover up!

- · Wear long-sleeved shirts and long pants.
- Mosquitoes may bite through thin clothing. Treat clothes with permethrin or another Environmental Protection Agency (EPA)-registered insecticide for extra protection.

#### Use only an EPA-registered insect repellent

- · Consider bringing insect repellent with you.
- · Always follow the product label instructions.
- Reapply insect repellent every few hours.
  - » Do not spray repellent on the skin under clothing.
  - If you are also using sunscreen, apply sunscreen first and insect repellent second.
- For more information: www2.epa.gov/insect-repellents

#### Natural insect repellents not registered with EPA

- In the United States, the EPA has not evaluated for effectiveness most of the commonly known natural insect repellents.
  - Examples of ingredients used in unregistered insect repellents include: citronella oil, cedar oil, gesanium oil, peppermint and peppermint oil, pure oil of lemon eucalyptus, soybean oil.
  - CDC recommends that you use an insect repellent containing an active ingredient shown to be both safe and effective.

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#### Active ingredient Higher percentages of active ingredient provide longer protection



Picaridin, also known as KBR 3023, Bayrepel, and icaridin

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

IR3535

#### Some brand name examples\*

(insect repellents may be sold under different brand names overseas.)

#### Offl, Cutter, Sawyer, Ultrathon

Skin So Soft Bug Guard Plus, Autan (outside the United States)

Repel

Skin So Soft Bug Guard Plus Expedition, Skin Smart

#### If you are travelling with a baby or child:

- · Always follow instructions when applying insect repellent to children.
- · Do not use insect repellent on babies younger than 2 months of age.
- Instead, dress infants or small children in clothing that covers arms and legs, or cover the crib, stroller, and baby carrier with mosquito netting.
- Adults: Spray insect repellent onto your hands and then apply to a child's face. Do not apply insect repellent to a child's hands, mouth, cut or initiated skin.

#### Treat clothing and gear

- Use permethrin to treat clothing and gear (such as boots, pants, socks, tents) or purchase permethrin-treated clothing and gear. Read product information to find out how long the protection will last.
- If treating items yourself, always follow the product instructions.
- Do not use permethrin products directly on skin.

 The use of commercial names is to provide information about products, it does not represent an endorsement of these products by the Centers for Disease Control and Prevention-or the U.S. Department of Health and Human Services.

www.cdc.gov/features/StopMosquitoes



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# Prevención de picaduras de mosquitos para viajeros

Los mosquitos transmiten muchos tipos de vinus y parásitos que pueden causar enfermedades como el chikungunya (chikungulva), dengue, Zika y paludismo (malaria). Si va a viajar a lugares donde hay paludismo, hable con su proveedor de atención médica sobre los medicamentos disponibles para prevenir el paludismo.

#### Protéjase y proteja a su familia de las picaduras de mosquitos:

#### Evite que los mosquitos entren en su habitación de hotel o a su alojamiento

- Seleccione un hotel o alojamiento que tenga aire acondicionado o malla de tela metálica en las puertas y ventanas.
- Duerma debajo de un mosquitero si el área donde duerme está en el esterior o si las puertas y ventanas no tiene malla de tela metallica. Los mosquitos pueden vivir en el interior y picar en cualquier momento, del día o de la noche.
- Compre un mosquitero en su tienda local especializada en equipo para acampar o en internet antes de viajar al extrarjero.
- Seleccione un mosquitero recomendado por la Organización Mundial de Salud identificado como WHOPES (MHO Preticides Evaluarios Scheme) como por ejemplo Pramas<sup>4</sup>, compacto, blanco, rectangular, con 156 agujeros por pulgada cuadrada y lo suficientemente largo para poderse ajustar debujo del colchon.
- Los mosquiteros tratados con permetrina proporcionan mayor protección que los mosquiteros no tratado

   Permetrina es un insecticida que mata mosquitos y otros insectos.
- No lave los mosquiteros ni los exponga a la luz solar. Esto inactivará el insecticida más rápido.
   Para obtener más información sobre los mosquiteros, consulto:
- www.cdx.gov/malaria/malaria\_worldwide/reduction/Itn.html

#### Cúbrasel

- · Use camisas de manga larga y pantalones largos.
- Los mosquitos pueden picarle a traveis de la ropa delgada. Trate la ropa con permetrina u otro insecticida que esté registrado en la Agencia de Protección Ambiental de los EE.U.X. (EPA, por sus siglas en inglés) para obtener protección adicional.

#### Solo use repelente de insectos registrados en la EPA

- Considere llevar un repeliente de insector.
- Siempre siga las instrucciones en la etiqueta del producto.
- Reapliquese el repelente de insectos cada pocas horas.
   No se aplique repelente en la piel debajo de la ropa.
  - Si también usa un filtro solar, apliqueselo primero y luego el recelente de insectos.
- Para más información, visite: <u>unun2 epa gou/resect repellents</u>



#### Repelentes de insectos naturales no registrados en la EPA

- La EPA no ha evaluado la eficacia de los repelentes de insectos naturales más comunes en los Estados Unidos.
- Algunos ejempilos de ingredientes usados en repelentes de insectos que no han sido regisitados incluyen aceite de citronela, aceite de cedro, aceite de geranio, aceite de menta, aceite de eucalipto limón puero o aceite de seja.
- Los CDC recomiendan que utilice un repelente de insectos que contenga un ingrediente activo que se haya comprobado que es seguro y eficas.

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#### Si viaja con un bebé o un niño:

- Siempre siga las instrucciones del producto al aplicar repelente de insectos a los niños.
- No utilice repelente de insectos en bebés menores de dos meses.
- Mejor, vista a su bebé o niño pequeño con ropa que le cubra los brazos y las piernas, o cubra la cuna, el coche y el portabebés con un mosquitero.
  - Aduitos: Rocien el repelente de insectos en sus manos y luego apliquento en la cara del niño. No apliquen repelente de insectos en las manos, la boca o la piel initada o cortada de un niño.

#### Trate la ropa y el equipo

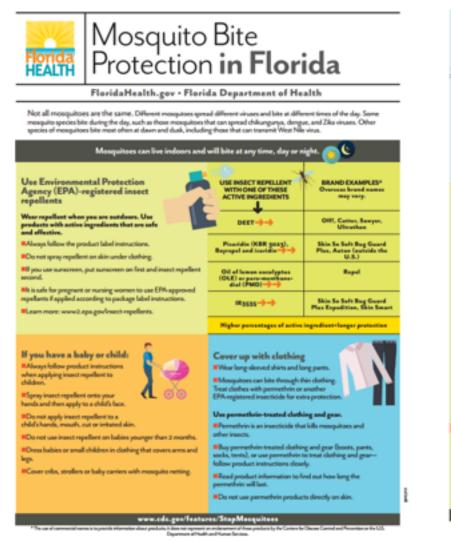
- Use permetrina para tratar la ropa y el equipo (como botas, pantaliones, calcritines y tiendas de campaña) o compre ropa y equipo ya tratados con permetrina. Les la información del producto para saber cuánto tiempo durasi la postección.
- Si usted va a aplicar el tratamiente, siga las instrucciones del producto.
- No use productos con permetrina directamente sobre la piel.
- El uso de las marcas comerciales de repelientes de insectos se afrecen para proveer información sobre el producto; no implica respláto de entos productos por parte de los Centros para el Cantesti y la Presención de Enformedades ni del Departamento de Solud y Servicios Rumanes de los Estados Unidos.

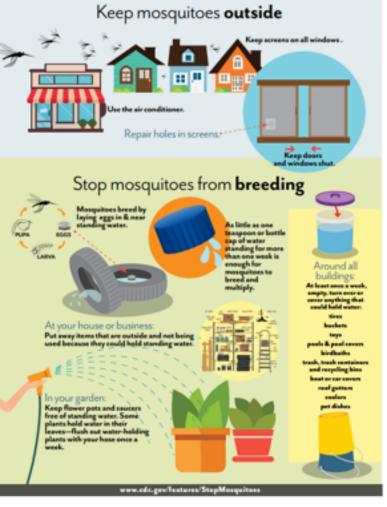
#### www.cdc.gov/features/StopMosquitoes





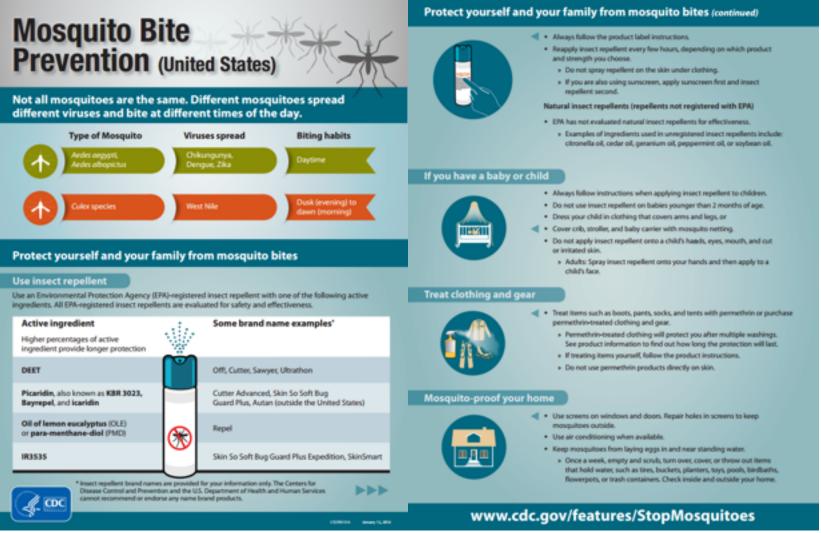
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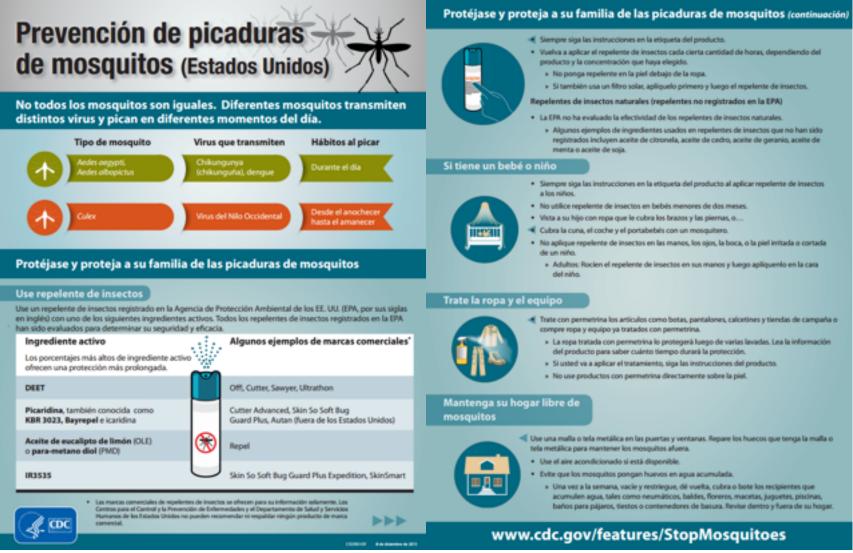


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# Action Plan – Zika Virus – Prevention, Preparedness and Outreach





# Action Plan – Zika Virus – Prevention, Preparedness and Outreach

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#### Help Control Mosquitoes that Spread Dengue, Chikungunya, and Zika Viruses

# Bzzz.

Aside from being itchy and annoying, the bite of an infected female mosquito (Aedes aegypti or Aedes albopictus) can spread dengue, chikungunya, or Zika viruses. People become infected with dengue, chikungunya, or Zika after being bitten by an infected mosquito.

- · Female mosquitoes lay several hundred eggs on the walls of waterfilled containers. Eggs stick to containers like glue and remain attached until they are scrubbed off. When water covers the eggs, they hatch and become adults in about a week.
- Adult mosquitoes live inside and outside.
- They prefer to bite during the day.
- A few infected mosquitoes can produce large outbreaks in a community and put your family at risk of becoming sick.

#### Protect Yourself, Your Family, and Community from Mosquitoes



#### Eliminate standing water in and around your home:

Once a week, empty and scrub, turn over, cover, or throw out items that hold water, such as tires, buckets, planters, toys, pools, birdbaths, flowerpots, or trash containers. Check inside and outside your home.

- Tightly cover water storage containers (buckets, cisterns, rain barrels) so that mosquitoes cannot get inside to lay eggs.
- · For containers without lids, use wire mesh with holes smaller than an adult mosquito.

#### If you have a septic tank, follow these steps:

- Repair cracks or gaps.
- · Cover open vent or plumbing pipes. Use wire mesh with holes smaller than an adult mosquito.

#### Keep mosquitoes out of your home:

- Use screens on windows and doors.
- Repair holes in screens.
- · Use air conditioning when available.

#### in of Vector-Borne Disease











CDC

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#### Prevent mosquito bites:

 Use an Environmental Protection Agency (EPA)-registered insect repellent with one of the following active ingredients. All EPA-registered insect repellents are evaluated to make sure they are safe and effective.

Active ingredient Higher percentages of active ingredient provide longer protection	Some brand name examples*
DEET	Off, Cutter, Sawyer, Ultrathon
Picaridin, also known as KBR 3023, Bayrepel, and icaridin	Cutter Advanced, Skin So Soft Bug Guard Plus, Autan (outside the United States)
IR3535	Skin So Soft Bug Guard Plus Expedition, SkinSmart
Oil of lemon eucalyptus (OLE) or	Repel

para-menthane-diol (PMD)

\* Insect repellent brand names are provided for your information only. The Centers for Disease Control and Prevention and the U.S. Department of Health and Human Services cann recommend or endorse any name brand products.

- Always follow the product label instructions.
- Reapply insect repellent every few hours, depending on which product and strength you choose.
- Do not spray repellent on the skin under clothing.
- If you are also using sunscreen, apply sunscreen first. and insect repellent second.
- Treat clothing and gear (such as boots, pants, socks, and tents) with permethrin or purchase permethrin-treated clothing and gear.
  - Treated clothing remains protective after multiple washings. See product information to find out how long the protection will last.
  - If treating items yourself, follow the product instructions carefully.
  - Do not use permethrin products, intended to treat clothing, directly on skin.

For more information, visit:

www.cdc.gov/dengue, www.cdc.gov/chikungunya, www.cdc.gov/tika

Wear long-sleeved shirts and long pants.













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#### Ayude a controlar los mosquitos que transmiten los virus del dengue, chikungunya y Zika

# Bzzz.

Además de causar picor y molestia, la picadura de un mosquito hembra infectado (Aedes orgopti o Aedes ofbopicnos) puede propagar los virus del dengue, chikungunya (chikunguña) o Zika. Las personas se infectan con el virus del dengue, del chikungunya o Zika al ser picadas por un mosquito infectado.

- Los mosquitos hembras ponen varios cientos de huevos en las paredes de envases con agua. Estos huevos se pegan a los envases como pegamento y permanecenim allí a menos que esos envases sean restregados. La próxima vez que el nivel del agua suba y cubra los huevos, las larvas nacerán, se convertisión en pupas y luego en mosquitos adultos en aproximadamente una semana.
- Los mosquitos viven dentro y fuera del hogar.
- · Prefieren picar durante el día.
- Unos pocos mosquitos infectados pueden producir grandes brotes en la comunidad y poner a su familia en riesgo de enfermarse.

#### Protéjase y proteja a su familia y a la comunidad de los mosquitos



- Una vez a la semana, vacie y restriegue con un cepilio o esponja, de vuelta, cubra o boter los recipientes que puedan acumular agua, tales como neumíticos, baldes, macetas, florenos, juguetes, piscinas, baños para pájaros, tiestos o contenedores de basura. Revise dentro y fuera del hogar.
- Coloque una tapa ajustada en los recipientes para el agua (baldes, cisternas, barriles para agua de lluvia) para que los mosquitos no puedan entrar a poner huevos.
- Use una malla o tela metálica con agujeros más pequeños que un mosquito para cubrir los recipientes sin tapa.

i tiene un pozo séptico, tome estas medidas:

- Repare las grietas y los huecos.
- Cubra el tubo de ventilación o respiradero con una malla o tela metálica con agujeros más pequeños que un mosquito.

National Center for Emerging and Zoonotic Infectious Diseases











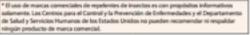


Use una malla o tela metálica en las puertas y ventanas.
 Repare los orificios en la malla o tela metálica.
 Use el aire acondicionado si lo tiene disponible.



 Use repelentes de insectos registrados en la Agencia de Protección Ambiental de los IE. UU. (ER, por sus siglas en inglés) con uno de los siguientes ingredientes activos. Todos los repelentes de insectos registrados en la IPA han sido estudiados para asegurarse de que sean seguros y eficaces.

Ingrediente activo Los porcentajes más altos de Ingredientes activos ofrecen una protección más prolongada.	Algunos ejemplos de marcas comerciales*
DEET	Off, Cutter, Sawyer, Ultrathon
Picaridina, también conocido como KBR 3023, Bayrepel e icaridina.	Cutter Advanced, Skin So Soft Bug Guard Plus, Autan (fuera de los Estados Unidos)
IR3535	Skin So Soft Bug Guard Plus Expedition, SkinSmart
Aceite de eucalipto limón (OLE) o para-metano-diol (PMD)	Repel



- Siempre siga las instrucciones en la etiqueta del producto.
- Vuelva a aplicar el repelente de insectos cada cierta cantidad de horas, dependiendo del producto y la concentración que haya elegido.
- No ponga repelente en la piel debajo de la ropa.
- Si también usa un filtro solar, apliqueselo primero y luego el repelente de insectos.

 Trate la ropa y el equipo (como botas, pantalones, medias y tiendas de campaña o carpas) con permetrina o compre ropa y equipo tratados con permetrina.

- La ropa tratada con permetrina continúa ofreciendo protección luego de varios lavados. Lea la información del producto para saber cuánto durará la protección.
- Si usted mismo va a tratar con permetrina los artículos, siga las instrucciones del producto cuidadosamente.
- No utilice productos con permetrina, destinados a tratar la ropa, directamente sobre la piel.
- Use camisas de manga larga y pantalones largos.

Para obtener más información, visite: www.cdc.gow/dengue, www.cdc.gow/chikungunya, www.cdc.gow/zika.







