

U.S. TRAVEL  
ASSOCIATION

# Zika Virus Update

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# CDC Responds to ZIKA



## Zika Briefing

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*March 18, 2016*



**U.S. Department of  
Health and Human Services**  
Centers for Disease  
Control and Prevention

## What is Zika virus disease (Zika)?

- In 1947, yellow fever researchers placed a rhesus macaque in a cage in the Zika Forest in Entebbe, Uganda
  - Zika means "overgrown" in the Luganda language
- The monkey developed a fever
  - Researchers isolated a transmissible agent from its serum in 1952 – the Zika virus



## What is Zika virus disease (Zika)?

- Disease spread primarily through the bite of an *Aedes* mosquito infected with Zika virus.
- Most people won't even know they have Zika.



## How is Zika transmitted?

- Zika can be transmitted through:
  - Mosquito bites
  - From a pregnant woman to her fetus
  - Sexual contact
  - Blood transfusion



## Where has Zika virus been found?

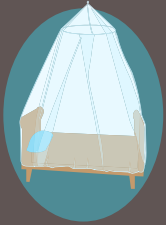
- Before 2015, Zika outbreaks occurred in Africa, Southeast Asia, and the Pacific Islands.
- Currently outbreaks are occurring in many countries and territories.



**Zika** is primarily  
transmitted through  
mosquito bites.  
Protect yourself.



# Ways to Protect Yourself from Zika



**STEP 1**  
KEEP MOSQUITOES OUTSIDE



**STEP 2**  
CREATE A BARRIER BETWEEN  
YOU AND MOSQUITOES



**STEP 3**  
WEAR INSECT REPELLENT

**STEP 4**  
PROTECT YOUR FAMILY



**STEP 5**  
PROTECT YOUR PARTNER



**STEP 6**  
DO YOUR HOMEWORK  
BEFORE TRAVELING



# Do your homework before traveling

## See the latest travel notices at:

[wwwnc.cdc.gov/travel/page/zika-travel-information](http://wwwnc.cdc.gov/travel/page/zika-travel-information)

### Zika Travel Information



For the most current information about Zika virus, please visit [www.cdc.gov/zika](http://www.cdc.gov/zika).

#### Zika Travel Notices

- [Zika Virus in Cape Verde](#)
- [Zika Virus in the Caribbean](#)  
Currently includes: Aruba; Barbados; Bonaire; Curaçao; Dominican Republic; Guadeloupe; Haiti; Jamaica; Martinique; the Commonwealth of Puerto Rico, a U.S. territory; Saint Martin; U.S. Virgin Islands
- [Zika Virus in Central America](#)  
Currently includes: Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama
- [Zika Virus in Mexico](#)
- [Zika Virus in the Pacific Islands](#)  
Currently includes: American Samoa, Samoa, Tonga
- [Zika Virus in South America](#)  
Currently includes: Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Paraguay, Suriname, Venezuela

#### For Travelers

- [Avoid Bug Bites](#)
- [Insect Repellent Use and Safety](#)
- [Zika virus | CDC](#)

#### For Clinicians

- [Zika: For Healthcare Providers](#) on CDC's Zika site
- [Update: Interim Guidelines for Health Care Providers Caring for Pregnant Women and Women of Reproductive Age with Possible Zika Virus Exposure – United States, 2016](#)
- [Interim Guidelines for Prevention of Sexual Transmission of Zika Virus – United States, 2016](#)
- [CDC Health Alert Network advisory: Recognizing, Managing, and Reporting Zika Virus Infections in Travelers Returning from Central America, South America, the Caribbean, and Mexico for Zika virus](#)
- [Possible Association Between Zika Virus Infection and Microcephaly – Brazil, 2015](#)

# What is CDC doing?

- **CDC's Emergency Operations Center**
  - Activated Jan 22, 2016
  - Highest level of activation on Feb 8.
- **Working with partners to:**
  - Educate healthcare providers & public about Zika.
  - Post travel notices (level 2 alert, practice enhanced precautions) and other travel-related guidance.
  - Provide state and territorial health laboratories with diagnostic tests.
  - Create and distribute Zika Prevention Kits for affected US territories

## 2016 ZIKA RESPONSE CDC IN ACTION



Tracking the spread of Zika virus and other mosquito-borne viruses in the United States and around the world.

Training disease detectives to find and report Zika cases.



Teaching healthcare providers how to identify Zika.

Testing samples for Zika and providing laboratories with diagnostic tests.



Studying possible links between Zika and birth defects and Guillain-Barré syndrome.

Educating the public about Zika virus.



Advising travelers how to protect themselves while traveling in areas with Zika.

# WHO Declaration

- **On February 1, 2016 WHO declared the current Zika virus situation a Public Health Emergency of International Concern (PHEIC)**
- **Microcephaly and other neurologic disorders – need for surveillance and research**
  - **Zika virus transmission**
  - **Longer-term measures**
- **Travel**
  - **There should be no restrictions on travel or trade with countries, areas and/or territories with Zika virus transmission**
  - **Travelers to areas with Zika virus transmission should be provided with up to date advice on potential risk and appropriate measures to reduce the possibility of exposure to mosquito bites**
  - **Standard WHO recommendations regarding disinsection of aircraft and airports should be implemented**
- **March 8, 2016 WHO statement on the Zika virus situation, for travel:**
  - **Pregnant women should be advised not to travel to areas of ongoing Zika virus outbreaks;**
  - **Pregnant women whose sexual partners live in or travel to areas with Zika virus outbreaks should ensure safe sexual practices or abstain from sex for the duration of their pregnancy**

# U.S. Population & Travelers

~ 310 million population

~ 40 million foreign-born

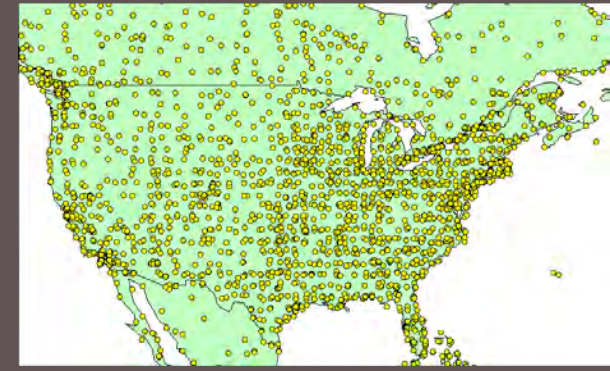
> 300 official ports of entry



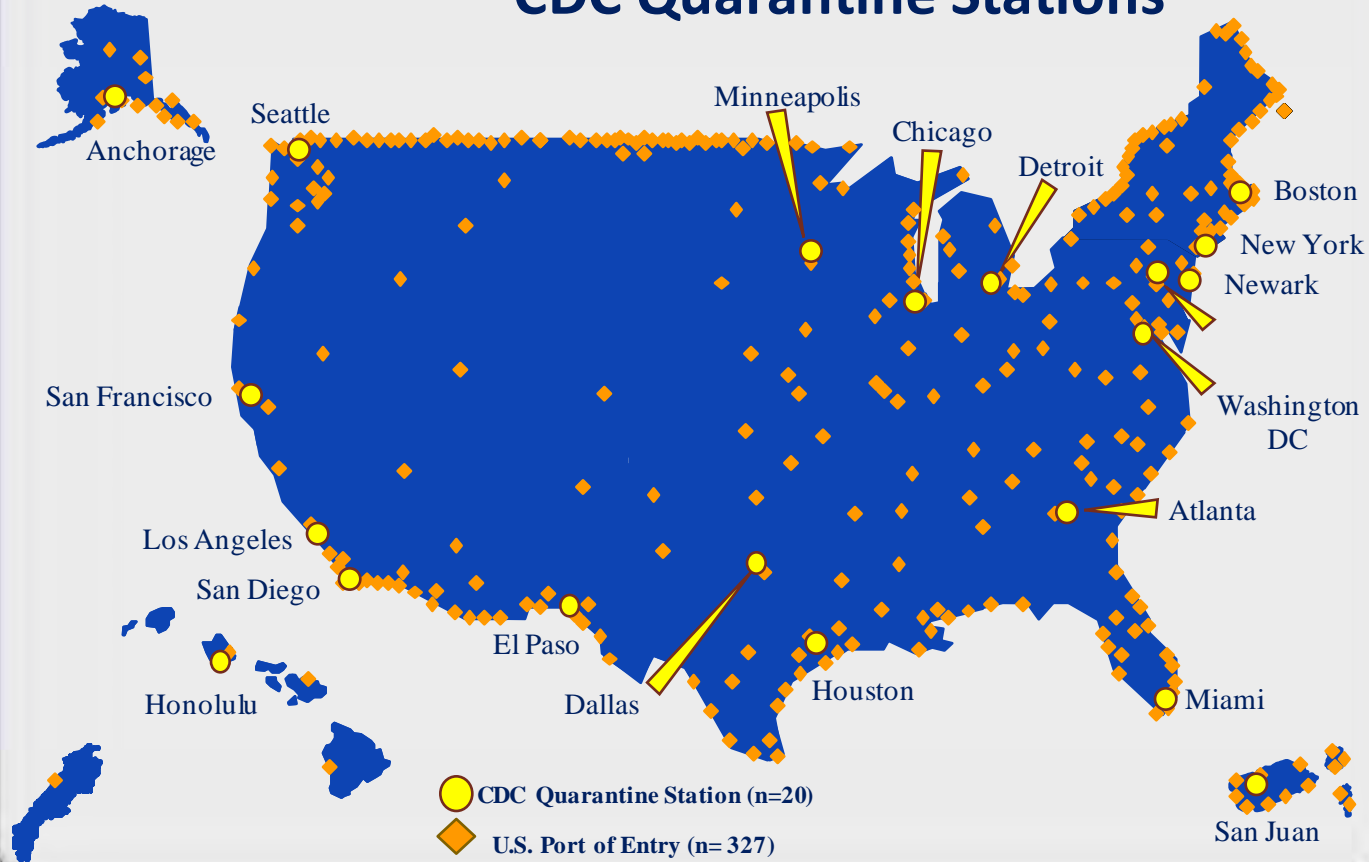
Border Crossings per Year	
Mode	Millions
Air	78
Sea*	26
Land	237
<b>Total</b>	<b>341</b>

Travel from Zika Affected Countries	
Mode	Millions
Air	34
Sea	9
Land	173
<b>Total</b>	<b>216</b>

Airport Coverage – North America



# U.S. POE and CDC Quarantine Stations



# Routine Activities at U.S. Airports

- Promptly identify and analyze public health risk based on ill traveler assessment
- Utilize existing reporting and response mechanisms
- Mitigate morbidity and mortality for passengers, crew, and community
- Support crisis emergency risk communication (compassionate, timely, credible)

**Close coordination with local public health, emergency first responders, law enforcement, and aviation sector partners is essential**

# Routine Border Tools & Activities to Prevent Introduction of Communicable Diseases

- **Health promotion & health communications to travelers**
  - E-monitors, Travel Health Alert Notices, CDC Travelers' Health Web site
- **Guidance to airlines and airport partners**
- **Federal authorities to restrict travel**
- **Contact investigations**
- **Routine Procedures to Detect Ill Travelers**
- **Training, Planning, Exercising**



# U.S. Airport Entry Screening

- Routine procedures to identify ill travelers is on-going in partnership with Customs and Border Protection (CBP)
- CDC is not conducting entry screening on arriving travelers for Zika
- Travelers from areas where Zika virus is spreading could arrive at any U.S. airport, including on domestic flights from U.S. territories or preclearance ports.
- CDC staff, in collaboration with CBP, EMS and local health officials, follow routine protocols and respond to sick travelers and determine appropriate measures
- The reporting requirements for airlines and cruise ships under CDC's regulations (42 CFR part 71) cover some of the more common symptoms of Zika.
- CDC will continue to assess the situation and determine if additional measures are necessary and communicate with Customs and Border Protection.

# Disinsection of Commercial Airplanes

- Zika virus spreads from place to place primarily through infected travelers, not mosquitoes
- CDC does not recommend routine use of insecticides (disinsection) inside commercial conveyances to prevent the spread of Zika virus
- Insecticide use is not required for airplanes or ships arriving in the United States
- Jurisdictions should continue to follow established, routine vector efforts to control or eliminate mosquitoes in airports and seaports
  
- Airlines should follow guidance from countries that require disinsection and from the International Civil Aviation Organization
  
- WHO has posted information on “Zika virus: Aircraft disinsection for mosquito control” at: [http://www.who.int/ihr/ports\\_airports/zika-aircraft-disinsection/en/](http://www.who.int/ihr/ports_airports/zika-aircraft-disinsection/en/).


# San Juan Quarantine Station



# Philadelphia Quarantine Station

**ZIKA HEALTH ADVISORY**


**Pregnant?** Zika is linked to birth defects.



Recently been in an area with Zika?

Talk to your doctor about the risk to your fetus.

Where is Zika? Find out at [www.cdc.gov/travel](http://www.cdc.gov/travel)



U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention

**AVISO DE SALUD: ZIKA**

**¿Está embarazada?** El zika se ha asociado a defectos de nacimiento.



¿Viene de regreso de un área con zika?

Hable con su médico sobre el riesgo para el embarazo.

Para más información, visite: [www.cdc.gov/zika/](http://www.cdc.gov/zika/)



U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention

# What Can Airlines do to Help Amplify the Message

- **Consider adopting fleet-wide approach to Zika virus notifications**
- **Provide health advice to passengers and crew with itineraries to locations listed in Zika virus travel alerts as having reported Zika transmission**
  - US-CDC, WHO/PAHO, European Centre for Disease Prevention and Control (ECDC)
- **Guidance from relevant national, regional and international health authorities can be used to develop health advice**
- **Provide information for specific risk groups**
  - Pregnant women, women trying to become pregnant
- **Update when health authorities update the advice they provide**

# What Can Airlines do to Help

## Amplify the Message

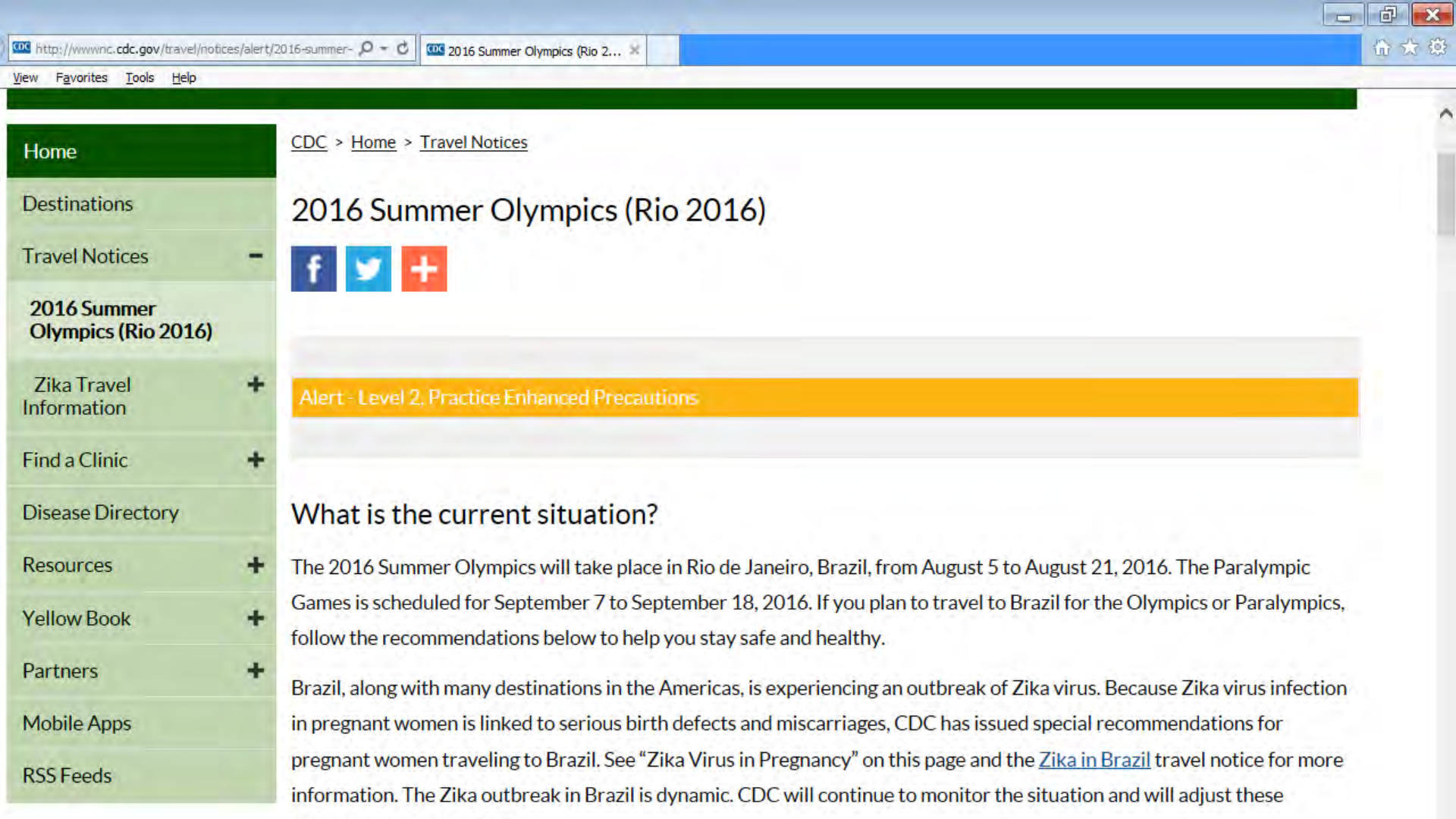
- Messages can be provided:
  - Pre-travel health alerts with itineraries to affected countries:
    - To passengers at on-line booking, via email prior to travel
    - To crew: online videos, news letters, emails
      - Specific health information for pregnant women and for women trying to become pregnant.
  - Onboard:
    - Inflight videos - everyone or those who select;
    - Flyers, magazine articles
    - Additional goodies for flights to affected countries?



# Olympics 2016

**Brazil, 5-21 August & 7 – 18 September**

- **U.S. Olympic Committee (USOC) formed a Disease Advisory Group**
  - Assist in identifying and establishing best practices regarding the mitigation, assessment, and management of infectious disease centered on the athletes and staff participating in Olympic and Paralympic Games and USOC operated facilities.
  - Assist in developing educational materials for athletes, staff, and delegation members.
  - CDC is a member of advisory group: Capt. Martin S. Cetron, MD, Director, Division of Global Migration and Quarantine
- **Olympic travel notice posted:**  
<http://wwwnc.cdc.gov/travel/notices/alert/2016-summer-olympics-rio>



- Home
- Destinations
- Travel Notices -
- 2016 Summer Olympics (Rio 2016)**
- Zika Travel Information +
- Find a Clinic +
- Disease Directory
- Resources +
- Yellow Book +
- Partners +
- Mobile Apps
- RSS Feeds

CDC > Home > Travel Notices

## 2016 Summer Olympics (Rio 2016)



**Alert - Level 2, Practice Enhanced Precautions**

### What is the current situation?

The 2016 Summer Olympics will take place in Rio de Janeiro, Brazil, from August 5 to August 21, 2016. The Paralympic Games is scheduled for September 7 to September 18, 2016. If you plan to travel to Brazil for the Olympics or Paralympics, follow the recommendations below to help you stay safe and healthy.

Brazil, along with many destinations in the Americas, is experiencing an outbreak of Zika virus. Because Zika virus infection in pregnant women is linked to serious birth defects and miscarriages, CDC has issued special recommendations for pregnant women traveling to Brazil. See "Zika Virus in Pregnancy" on this page and the [Zika in Brazil](#) travel notice for more information. The Zika outbreak in Brazil is dynamic. CDC will continue to monitor the situation and will adjust these

# Travel Recommendations for 2016 Summer Olympics in Brazil

- **Zika**
  - Women who are pregnant should not go.
  - If they must go, should prevent mosquito bites.
  - Women trying to become pregnant should talk to their doctor.
  - Men who go should use condoms or not have sex with pregnant partners.
- **Other travel health recommendations**
  - Get travel vaccines.
  - Follow safety and security recommendations.
  - Follow food and water safety guidelines.
  - Prevent mosquito bites (to prevent dengue and chikungunya, as well as Zika).
  - Choose safe transportation options.
- **Similar guidelines have been issued for spring break travelers.**  
<http://www.cdc.gov/features/springbreaktravel/index.html>

# Airlines: Things to Take Into Account

- Disease severity and potential impact on traveler
- Are all travelers at same risk
- Statements by WHO
  - Emergency committee statements, e.g. PHEIC
- Statements by National Governments
  - Travel Health Notices
    - In the US could consider for L2 or L3
  - Published Guidance for Monitoring and Movement of Persons
- CDC advises purchasing travel health and medical evacuation insurance  
<http://wwwnc.cdc.gov/travel/yellowbook/2016/the-pre-travel-consultation/travel-insurance-travel-health-insurance-medical-evacuation-insurance>

# Communication Materials

### CDC's Response to Zika

## PREGNANT and living in an area with Zika?

#### What we know about Zika

- Zika can be passed from a mother to her fetus during pregnancy.
- Infection with Zika during pregnancy is linked to birth defects in babies.
- Zika is spread mostly by the bite of an infected Aedes species mosquito.

#### What we don't know about Zika

- When during pregnancy Zika might cause harm to the fetus.
- How likely it is that Zika infection will affect your pregnancy.
- If your baby will develop birth defects from the infection.

## 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 home

- Choose a hotel or lodging with air conditioning.
- Sleep under a mosquito net that has been treated with permethrin and will bite at any time.
- Buy a bed net at your local outdoor store.
- Choose a WHO/PQS-approved bed net with 150 holes per square inch and Permethrin-treated bed nets avoid Permethrin is an insecticide that doesn't wash bed nets or expose insecticide more quickly.
- For more information on bed nets.

### Pregnant?

Warning: Zika might be linked to birth defects. There is no vaccine to prevent Zika virus infection.

## Protect yourself from mosquito bites

**Discard or avoid stagnant water**

Mosquitoes that spread chikungunya, dengue, and Zika are aggressive daytime biters. They can also bite at night.



**Use insect repellents that work!**

Look for DEET, Picaridin, IR3535, Oil of Lemon Eucalyptus, Para-menthane diol.

**Wear protective clothing**

Use long-sleeved shirts and long pants and use insect repellent. Use sun protection, heat-reflecting with sunscreen.

For more information: [www.cdc.gov/zika](http://www.cdc.gov/zika) | [www.cdc.gov/pregnancy](http://www.cdc.gov/pregnancy) | [www.cdc.gov/malaria](http://www.cdc.gov/malaria) | [www.cdc.gov/dengue](http://www.cdc.gov/dengue)

### travel

## What we know about Zika


- Zika can be spread from a pregnant mother to her fetus during pregnancy.
- Infection during pregnancies may be linked to birth defects in babies.
- Zika is spread mostly by being bitten by an infected Aedes species mosquito. These mosquitoes are aggressive daytime biters. They can also bite at night.
- To date, there has been no local transmission of Zika in the United States.
- Because the mosquitoes that spread Zika are found throughout the tropics, outbreaks will likely continue.
- There is no vaccine to prevent or medicine to treat Zika.

## What we don't know about Zika

- If there's a safe time during your pregnancy to travel to an area with Zika.
- If you are pregnant and become infected:
  - How likely you are to get Zika.
  - How likely it is that the virus will affect your pregnancy.
  - How likely it is your baby will have birth defects from the infection.

### CDC'S RESPONSE TO ZIKA

## WHAT WE KNOW AND WHAT WE DON'T KNOW.



### What we know

Zika can be spread from a mother to her fetus during pregnancy.

Infection during pregnancies is linked to birth defects in babies.

Zika is spread mostly by the bite of an infected Aedes species mosquito.

Zika is not naturally found in the continental U.S. The mosquitoes that can carry Zika are found in some areas of the U.S.

Because the mosquitoes that spread Zika are found throughout the tropics, outbreaks will likely continue.

There is no vaccine to prevent or medicine to treat Zika.

Zika Updates: [www.cdc.gov/zika](http://www.cdc.gov/zika)

# Resources

- CDC Emergency Partners Newsletter request: [emergencypartners@cdc.gov](mailto:emergencypartners@cdc.gov)
- Zika virus and pregnancy Q&As: <http://www.cdc.gov/zika/pregnancy/question-answers.html>
- Zika key messages <http://www.cdc.gov/zika/pdfs/zika-key-messages.pdf>



For more information, contact CDC  
1-800-CDC-INFO (232-4636)  
TTY: 1-888-232-6348 [www.cdc.gov](http://www.cdc.gov)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



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