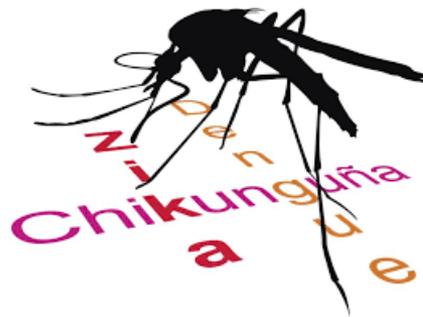




# MONMOUTH COUNTY HEALTH DEPARTMENT

## ZIKA VIRUS: POTENTIAL PUBLIC HEALTH IMPACT IN OUR COMMUNITIES



May 19, 2016

*PRESENTED BY: PREETHI SUBRAMANYA,  
PUBLIC HEALTH EPIDEMIOLOGIST*

# What is ZIKA Virus(ZIKA)?

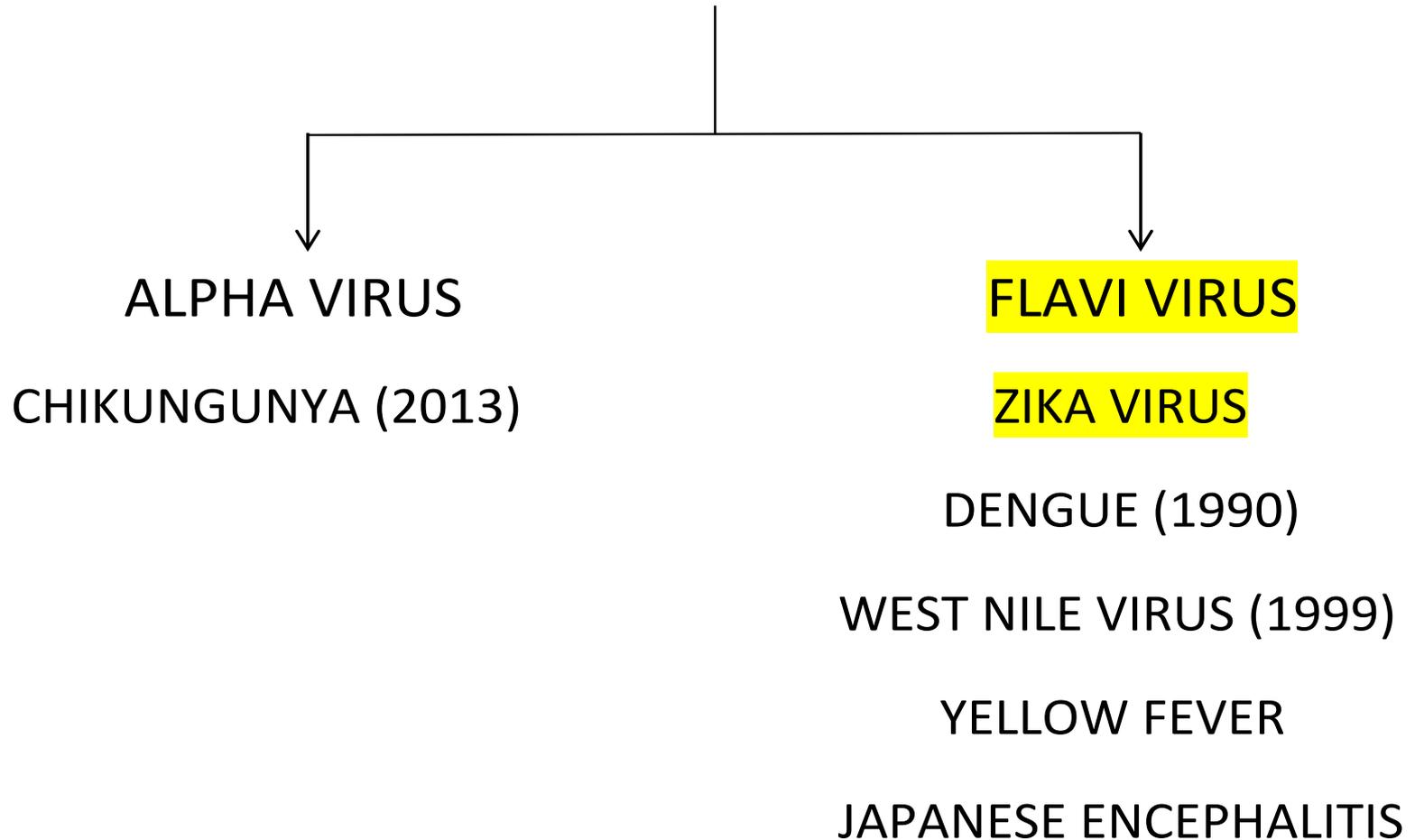
Viral infection caused by the bite of an infected mosquito



# ZIKA VIRUS TRANSMISSION AROUND THE WORLD



# ARBO VIRUSES (RNA)

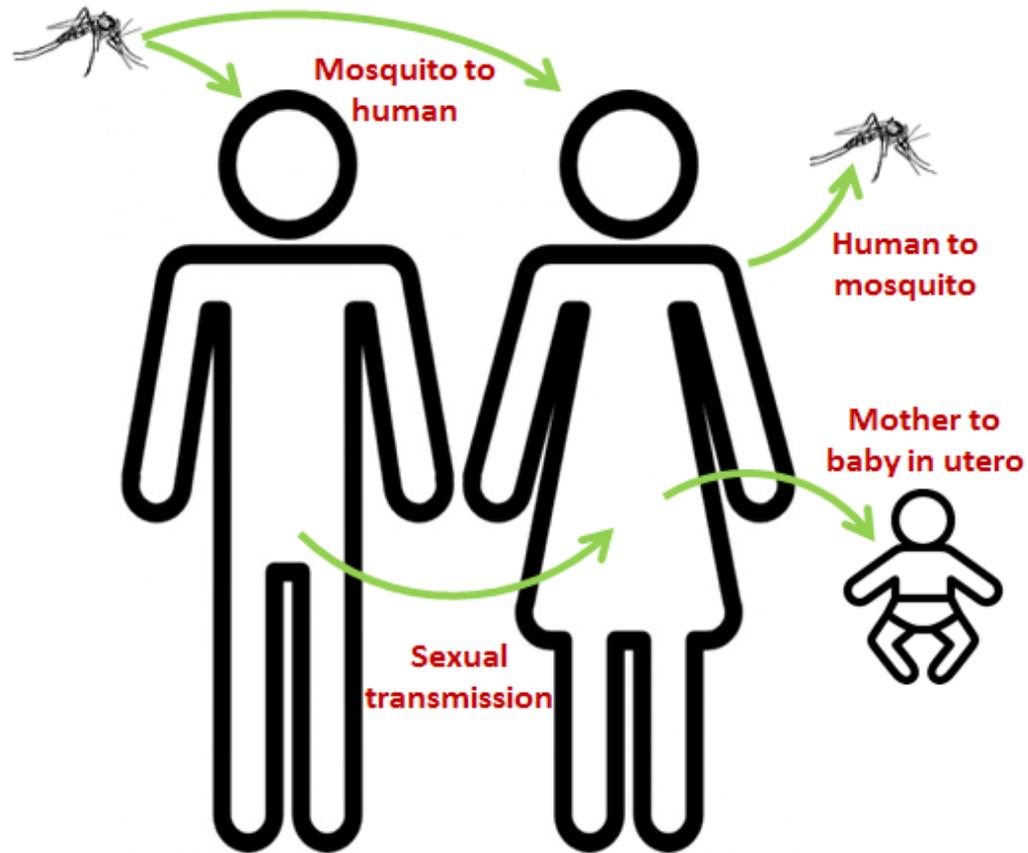


# SIGNS & SYMPTOMS

- ▶ 1 IN 5 PEOPLE ACTUALLY SHOW SYMPTOMS.
  - ▶ Fever, rash, joint pain, conjunctivitis (red eyes), muscle pain and headache.
- 

# TRANSMISSION

## 4 Zika Transmission Routes



# COMPLICATIONS

- ▶ MICROCEPHALY
- ▶ GULLIAN BARRE SYNDROME



# ✓ FACT CHECK

Zika is not an airborne disease and cannot be spread by coughing, sneezing or talking.

# ZIKA LABORATORY TESTING

- ▶ ACUTELY SYMPTOMATIC INDIVIDUALS
- ▶ PREGNANT WOMEN
- ▶ INFANTS WITH MICROCEPHALY
- ▶ SYMPTOMATIC INFANTS
- ▶ INDIVIDUAL DIAGNOSED WITH GUILLIAN-BARRE SYNDROME (GBS)

***NOTE: Testing blood or semen is not recommended to determine the risk of sexual transmission of Zika virus.***



# TREATMENT

- ▶ Pain medication: acetaminophen (paracetamol) **TYLENOL**
- ▶ **NO NSAID'S/ IBUPROFEN (ADVIL, MOTRIN)**
- ▶ **NO VACCINE**



## ZIKA VIRUS

### Is there a treatment?

There is no vaccine or specific drug against this virus. Only pain and fever can be treated.

Patients with symptoms of Zika infection should:



Get plenty of bed rest



Wear clothing that covers arms and legs



Take medicine to relieve fever and pain



Use mosquito nets when napping



Drink plenty of liquids



If symptoms worsen or complications develop, see a doctor immediately



Pan American Health Organization



World Health Organization  
REGIONAL OFFICE FOR THE Americas

#zika  
#FightAedes  
#ZikaVirus  
[www.paho.org/zikavirus](http://www.paho.org/zikavirus)

# PREVENTION

- ▶ MOSQUITO REPELLENTS
- ▶ AVOID TRAVEL IF PREGNANT OR PLANNING PREGNANCY
- ▶ USE CONDOMS

## ZIKA Virus

DISEASE PREVENTION & CONTROL

### PREVENTION



WEAR LONG SLEEVED SHIRTS, TROUSERS, HATS



USE EFFECTIVE INSECT REPELLENTS



SLEEP UNDER MOSQUITO NETS ON BEDS



EMPTY/CLEAN CONTAINERS THAT HOLDS WATER



PROTECT WINDOWS AND DOORS WITH MOSQUITO NETS



USE INSECT REPELLENT FOR CLOTHING

# ACTIVE TRANSMISSION

Reported active transmission



# COUNTRIES WITH ACTIVE ZIKA TRANSMISSION

## AMERICAS

Countries and territories reporting ongoing transmission of Zika include: American Samoa, Aruba, Barbados, Bolivia, Bonaire, Brazil, Colombia, Costa Rica, **Cuba**, Curacao, **Dominica**, Dominican Republic, Ecuador, El Salvador, French Guiana, Guadelupe, Guatemala, Guyana, Haití, Honduras, **Jamaica**, **Kosrae**, **Federated States of Micronesia**, Martinique, Mexico, Nicaragua, Panama, Paraguay, Puerto Rico, Saint Martin, **Saint Barthelemy**, **Saint Lucia**, **Saint Vincent and the Grenadines**, **Saint Martin**, **Tonga**, **Trinidad**, **Tobago**, Suriname, U.S. Virgin Islands, and Venezuela.

## OCEANIA/PACIFIC ISLANDS

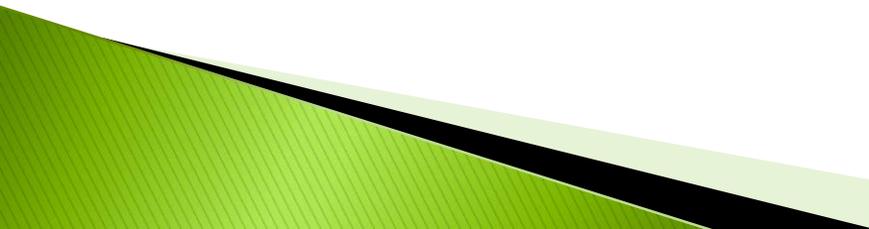
**Papua**, **New Guinea**, **Marshall Islands**, **New Caledonia**, **Fiji** *Samoa*.

## AFRICA

*Cape Verde*

[WWW.PAHO.ORG](http://WWW.PAHO.ORG) (PAN AMERICAN HEALTH ORGANIZATION)

# Travel advisory

- Pregnant women (in any trimester) should not travel to countries on the list for active ZIKA transmission.
  - Women and men with no symptoms of ZIKA should wait 8 weeks after return to attempt conception.
  - After return, men with a pregnant partner should use condoms or not have sex (vaginal, anal, or oral) during the remainder of the pregnancy.
- 



# ZIKA STATISTICS

## US States

- ▶ Travel-associated cases reported: 503
- ▶ Locally acquired vector-borne cases reported: 0
- ▶ Total: 503
  - Pregnant: 48
  - Sexually transmitted: 10
  - Guillain-Barré syndrome: 1

## US Territories

- ▶ Travel-associated cases reported: 3
- ▶ Locally acquired cases reported: 698
- ▶ Total: 701
  - Pregnant: 65
  - Guillain-Barré syndrome: 5

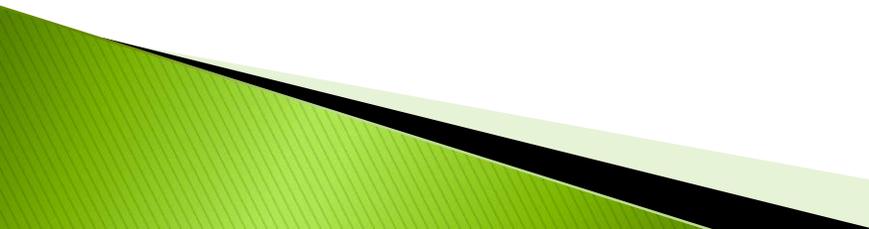
# ✓ FACT CHECK

A WIDESPREAD OUTBREAK IN THE CONTINENTAL United States is NOT EXPECTED.

# \$ FUNDING \$

- ▶ 1.9 BILLION (1.1 BILLION SCANTIONED)
- ▶ \$589 MILLION
  - Vaccine development
  - Development of better lab tests
  - Study the epidemiology of the disease.
  - Mosquito control and eradication
  - Working with families of babies born with ZIKA – Connected birth defects and neurological sequelae.

# What is Monmouth County Health Department doing to protect me?

- ▶ Collaborate with New Jersey Department of Health, CDC and other local health departments in Monmouth County.
  - ▶ Disseminating information about ZIKA Virus and mosquito control.
  - ▶ Expertise at the health department to answer questions related to ZIKA and direct them as essential. (Travel Clinic)
  - ▶ Training and information sharing with public, hospitals, health care providers, OEM and MRC Volunteers in preparation for spring and summer 2016.
- 

# COMMUNICATIONS

## Public Call Center



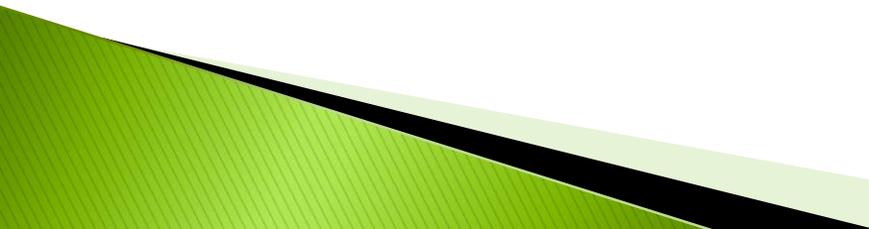
**800-962-1253**

### WEBSITE

[www.nj.gov/health/cd/zika](http://www.nj.gov/health/cd/zika)

<https://co.monmouth.nj.us/page.aspx?ID=4672>

# REFERENCES

- ▶ [http://www.cdc.gov/mmwr/volumes/65/wr/mm6503e2.htm?s\\_cid=mm6503e2.htm\\_w](http://www.cdc.gov/mmwr/volumes/65/wr/mm6503e2.htm?s_cid=mm6503e2.htm_w)
  - ▶ <http://medicalxpress.com/news/2016-02-colombia-explosion-nerve-disease-zika.html>
  - ▶ <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2883091/>
  - ▶ [\*\*www.CDC.GOV/HEALTH\*\*](http://www.CDC.GOV/HEALTH)
  - ▶ [\*\*New Jersey State Department of Health\*\*](#)
- 



THANK YOU  
UPDATED: May 18, 2016