

WHAT IS ZIKA VIRUS ?

Source: CDC/ Prof. Frank Hadley Collins, Dir., Cntr. for Global Health and Infectious Diseases, Univ. of Notre Dame (with thanks)

Zika virus is a mosquito-borne virus transmitted primarily by the bite of the mosquito, *Aedes aegypti*. This species of mosquito can also transmit the viruses that cause dengue and chikungunya^{1,2}. Outbreaks of Zika virus have been reported in Africa, Southeast Asia, the Pacific islands and the Americas, most notably in Brazil²

WHAT ARE THE SYMPTOMS ?

About one in five people infected with Zika virus become ill. Symptoms include acute onset of mild fever, reddening of the skin, joint pain and conjunctivitis. Clinical illness is usually mild, with symptoms lasting for several days to a week. Severe disease requiring hospitalization is uncommon, and deaths from Zika virus are rare².

Maternal-fetal transmission of Zika virus has been documented throughout pregnancy. In the current outbreak in Brazil (2015/2016), a marked increase in the number of infants born with microcephaly has been reported^{3,4}. Microcephaly is a birth defect where a baby's head is smaller than expected when compared to babies of the same sex and age. Babies with microcephaly often have smaller brains that may not have developed properly. It is not known how many of these microcephaly cases are associated with Zika virus infection and what factors increase risk to the fetus^{4,5}. A causal link with Zika has been confirmed.

HOW IS IT CONTROLLED ?

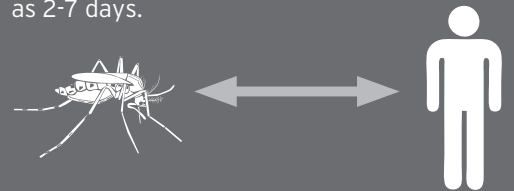
There is no vaccine for Zika virus. The main preventive approaches are raising awareness of the risk factors, reducing exposure to mosquito bites and eliminating their breeding grounds. Wearing clothing that covers the skin, including long sleeves and pants, and the use of an insect repellent are highly recommended while outdoors. The use of window and door screens, and staying in buildings with air conditioning is also recommended.

Mosquitoes typically propagate by laying eggs in and near standing water, including buckets, bowls, animal dishes, flower pots and vases. Mosquitoes can lay several hundred eggs on the walls of water-filled containers. When water covers the eggs, they hatch and become adults in about a week. They are aggressive daytime biters and opportunistically bite people for a blood meal². They can rest indoors and outdoors near people. To help reduce the number of mosquitoes inside and outside buildings, empty standing water from containers such as flowerpots or buckets, even old tires and trash^{2,6}.

Until more is known, and out of an abundance of caution, the U.S. CDC recommends pregnant women in any trimester should consider postponing travel to the areas where Zika virus transmission is ongoing. In addition, women who are thinking about becoming pregnant should consult their healthcare provider before traveling to these areas and follow similar steps³.

HOW IS IT TRANSMITTED ?

Zika virus is transmitted from person-to-person through mosquito bites and can also be transmitted sexually from a male to his partners. Mosquitoes become infected with Zika virus when they feed on a person already infected with the virus. Infected mosquitoes can then spread the virus to other people through bites. Typically, an infected person only carries the virus for a short time, as little as 2-7 days.



Learn More Today

Find out how Ecolab can help keep mosquitoes from biting your staff and customers.

Contact us: 1 800 325 1671

REFERENCES AND FURTHER INFORMATION

1. <http://www.who.int/mediacentre/factsheets/zika/en/>
2. <http://www.cdc.gov/zika/index.html>
3. <http://emergency.cdc.gov/han/han00385.asp>
4. <http://www.cdc.gov/zika/pregnancy/question-answers.html>
5. <http://www.cdc.gov/ncbddd/birthdefects/microcephaly.html>
6. http://www.cdc.gov/zika/pdfs/factsheet_zika-what-you-need-to-know_spanish.pdf