

MOSQUITO-BORNE ILLNESS: ZIKA VIRUS

Tabassam Fatima¹, Syed Asad Ali Shah Bukhari^{1*}, Muhammad Hamza¹, Muhammad Raees¹

1. Riphah international university, Lahore, Pakistan.

*Corresponding author: alishahsyedasad61@gmail.com

ABSTRACT

The virus is related to nervous problems. As no vaccines are available in the market so mode of prevention is solely based on treatment. Due to this problem, it is of prime concern. Many articles and research papers are available that include the control strategies for Zika Virus. Control measures need to be applied efficiently for our protection from this virus.

Introduction:

This virus is present worldwide. It emerged from Kenya and then from Brazil, and recently reported from France. It is a virus of a serious concern that can result in high prolonged fever, microcephaly in neonatal, and other nervous disorders (6).

Lifecycle

Life cycle of this virus is a bit complex. It can somehow include humans and to some extent mosquitos. The virus affects pregnant women (5). The virus enters the cells and bonds receptors there. Virus RNA is released into the cell then replication starts in the cell and viral particles mature. New viral particles assemble in the endoplasmic reticulum move to the Golgi apparatus and ultimately get released from cells.

Symptoms

Some common symptoms of this disease are headache, rashes, conjunctivitis, malaise, muscle and joint pain, nervous signs, and high fever for a prolonged time. Infection of Zika Virus can sometimes be asymptomatic (4).

Transmission

This virus can be transmitted by the bite of infected mosquito, from pregnant mother to fetus, sexual contact, blood transfusion, even if a person is asymptomatic at the time. Affected people can spread the virus to other persons so proper care is needed (1, 2).

Treatment

The use of antipyretics can help in the reduction of body temperature. But if you are taking medication for other conditions, consult your doctor for further recommendations (3).

Control

The control includes mosquito repellents, staying in AC rooms, and wearing long-sleeved shirts.

Conclusions and Future Perspective

This is a growing virus throughout the world and we need to be more efficient in our approach towards its elimination. Otherwise, it can cause serious complications at a higher rate. In short, this virus needs immediate attention by countries for their safety.

References

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