

VIRUS Zika - NEW TARGET OF PHARMACEUTICAL MICROBIOLOGY

Chemariev V. A., Aliev R. A.

National University of Pharmacy, Kharkiv, Ukraine

milkreed@gmail.com

Introduction. Zika virus - a type of virus carried by Aedes mosquitoes.

Target. Explore the features and structure of the Zika virus and its differences from other viruses Flaviviridae family, ways of transmission, the mechanisms of effect in the body of adults and children, diagnostic methods, perspectives of creation of specific drugs and vaccines.

Materials and Methods. analysis of the scientific literature and the results of new research in the domain of Virology.

Results and discussion. For the first time the virus found at monkeys - rhesus Zika forest (Uganda) in 1947 in the framework of the monitoring network for forest form of Yellow fever.

The main symptoms: mild headache, rash, fever, malaise, conjunctivitis, pain in the joints, may be nausea, vomiting, and stomach problems.

More dangerous this virus for pregnant women - they are born children – invalid, with microcephaly (underdeveloped brain).

Outbreaks caused by Zika virus, registered in Africa, North America, Asia and the Pacific. In 2015 the VOZ gave its outbreak in South America: the illness began to spread rapidly around the world, and in February reached Europe, then Zika virus was declared a global problem. In periods of mass outbreaks Disease Zika virus fix possible evolution complications, including autoimmune and neurological disorders. Dangerous Zika virus that swept of half world, selected closer to Ukraine: it was reported that the first case of infection recorded in Russia.

Zika virus infection can be suspected based on symptoms in the recent past (eg, residence or a trip to a region with a known presence of virus Zika). Zika virus can confirm only through laboratory testing for the presence of DNA Zika virus in blood or other body fluid such as urine or saliva. Explore serum allocated during the acute phase of the disease, using PCR - tests.

Conclusions. Zika virus is spreading rapidly across the planet: to date the disease was registered in 33 countries. Installed and a new source of infection: the virus can transmit not only mosquitoes, but they ill people (in 2009 there were cases of sexually transmitted infection). Specific drugs and vaccines of virus we dont have now. In theory, the creation of vaccines possible. However, testing and test the effectiveness of the drug will take years and will cost hundreds of millions of dollars. In India, claim to have developed a cure for the dangerous virus, but VOZ believe that the test of a vaccine can only be expected in 1.5 years.