

IMMUNOMODULATION EFFECTS OF ANTIIDIOTYPIC ANTIBODIES BY EXPERIMENTAL VENEZUELAN EQUINE ENCEPHALOMYELITIS (VEE) INFECTIONS. V. I. Markov, V. A. Pschenichnov, A. A. Makhlay. Virological Centre of Microbiological Research Institute of the Defence Ministry, Sergiev Posad, Russia.

Antiidiotyping antibodies (AidAb) is new important approach in development of molecular immunology and protection against viral infections. We have examined of immunological properties of AidAb to mouse MAb, which recognized immunodominant protective epitope on surface structural glycoprotein E2 of VEE virus. Two groups of rabbits were immunized: first - sequentially by (Fab)2- and Fab-fragments of AidAb with adjuvants, second - with live attenuated vaccine strain of VEE virus. After third injection in the serum of immunized animals were detected virus-specific antibodies (Me of ELISA titers 1:320) and immunological memory, defined as significance index of stimulation in reaction of blasttransformation. On 24 day all animals were infected subcutaneously with 18 LD of virulent strain Trinidad of VEE virus. In group, what are immunized live vaccine survival 88% of infected animals. Lethality in the group immunized with AidAb are 88%, however clinical signs of disease are very mild, with prevalence of atypic asymptomatic forms. Immunological analysis indicated the occurrence of a significance level of difference in reactions various subsets T- and B-lymphocytes on several mitogens and clear VEE virus antigen. There data suggests that AidAb may have protective and important immunomodulation properties.

IMMUNOTHERAPY OF THE EXPERIMENTAL EBOLA FEVER. V. V. Mikhailov, I. V. Dorisevich, V. P. Krasnianskiy, V. M. Lazarenko, and A. A. Makhlay. Virological Centre of Microbiological Research Institute of the Defence Ministry, Sergiev Posad, Russia.

In case of Ebola fever the deep defect of the immunity and the hemostas systems is observed. The application of the immunitytherapeutic remedie (specific immunoglobulin, IL-2, Th-activin), medicines, correctiving the hemostas system (ϵ -aminocarronicum acid, oliphen), and ciprofloxacin defends from death 100% of the monkeys P.hamdryas.