

CHARACTERISTIC OF IMMUNOGENICITY OF SEASONAL INFLUENZA VACCINES

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Influenza at the present stage is a serious problem, it is the only disease that over the past decade has caused a pandemic. Immunisation is the most important way to contain the infection. Objective: to establish features immunogenicity of seasonal influenza vaccines. The study criterion of immunogenicity for vaccines used hemagglutination inhibition (RIHA). We studied the seasonal trivalent vaccine for the prevention of influenza, which are registered in Ukraine: Vaxigrip (Aventis Pasteur, France), Influvac (Solvay Pharmaceuticals, Netherlands), Grippodol (LTD "Petrovaks" SRI vaccines and serums, St. Petersburg, Russia).

In the experiment on murine models have been applied twofold introduction of equal doses of study drugs (booster immunizations). Among the findings noteworthy advantage titers RIHA for almost all antigens in vaccine recipients split Vaxigrip compared with the group immunized with subunit vaccines Influvac as after the first and after the second phase of vaccination. In large measure seroconversion rate for Vaxigrip also exceeded similar indicator vaccine Influvac. Regarding drug Grippodol which is subunit vaccines with the least total protein among investigated seasonal vaccines, the immunogenicity exceeded its performance Influvac, and in some positions - equal parameters split vaccine Vaxigrip. So titer of hemagglutination inhibition by A (H1N1) after the first and second vaccination Grippodol was twice higher than the rate at application Influvac and equaled that observed in vaccination Vaxigrip.

The vaccine Grippodol consists of protective surface antigens HA and influenza virus A and B, coupled with a macromolecular carrier polioksydoniy (copolymer N-oxide and 1,4-etylenpiperazynu (N-karboksyetyl) -1,4-etylenpiperazyniyu bromide). It is known that Grippodol is a highly purified preparation, which coincides with the results of our studies of the molecular structure of proteins of the vaccine. In our opinion, the experimental set high immunogenicity Grippodol associated with immunostimulating influence polioksydoniy.