

PARAZITOCENOSSES IN ETIOLOGY OF SWINE INFECTIOUS DISEASES

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In pig farms with different quantity of swines the mixed infectious process induced by entero-, corona-, rotaviruses, pathogenic E.coli, streptococci, salmonellae in various combinations were studied. In the course of mixed infection both in body of an animal and in herds the domination of one agent between other was revealed. This sign was characterized by existence in majority of samples and higher titers. The dominative viruses were more virulent than recessive ones. The agent pulsation may contribute to populations safety in immune pressure condition.

Considering the ability of different viruses to reproduct and inhabit the intestinum, the probability of mixed infections in different combination is relatively high. The purpose of presented work was the study of mixed infections spreading and their etiology connected with entero-, corona-, rotaviruses and some bacteria. In farms with 6-108 thousand pigs the etiology of infections was characterized by combination of agents with periodical domination and pulsation. The domination was evaluated by the presence in majority of samples and by higher titers. The peculiar property "pulsation" was detected by the change of dominative virus with the period from 1 to 3 years. Two different viruses may do not react between themselves during replication in sensitive system in cases when they have different virulence or low inoculation plurality. The variations of this phenomenon may have as a result either synergism or neutralism or interferention between involved populations. The clinical effect of such phenomenon was expressed in different severety of infections with the same etiology profile in affected herds.

The dominative viruses were more virulent than recessive ones. The agents pulsation is likely to be connected with the ability of viruses to slip away from the host immune pressure. These data would be taken into consideration in new vaccinia development and in evaluation of epizootic state.

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