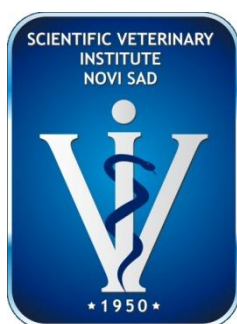


SCIENTIFIC VETERINARY INSTITUTE „NOVI SAD“
INSTITUTE OF VETERINARY MEDICINE OF SERBIA

„One Health – New Challenges“
**First International Symposium of
Veterinary Medicine
(ISVM2015)**



BOOK OF ABSTRACTS



**Hotel "Premier Aqua" - Vrdnik
May 21 – 23, 2015**

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SEROLOGICAL SURVEY FOR ANTIBODIES AGAINST MORBUS AUJESZKY VIRUS IN PIGS ORIGINATING FROM UNVACCINATED HERDS

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Summary

Morbus Aujeszky (MA) is an acute, contagious viral disease, of wide range of domestic and wild-life species. The occurrence of the disease is sporadic or enzootic in all susceptible species, except pigs, where the infection is on the large scale, and the outcome of infection depends on virus virulence, age and immunological status of the animals. The pigs are natural hosts for virus, and the adult pigs can be latently infected without any clinical symptoms. The infection in young piglets causes high mortality rate. Before starting national eradication campaigns seroprevalence for MA in some European countries and regions ranged from estimated overall 35% in Belgium to 69% in South Netherlands. The aim of this research was to estimate the seroprevalence for MA among unvaccinated pigs on the farms and for the first time the backyard stocks. In order to estimate MA seroprevalence of unvaccinated breeding pigs a total of 354 blood samples were collected from sows and boars belonging to individual producers in three regions of Vojvodina (Banat, Srem and Backa), and 223 samples were taken from farm pigs. Detection of antibodies against MA was carried out by enzyme immunoassay (ELISA). The average MA seroprevalence of unvaccinated breeding pigs was estimated at 32.7% for backyard pigs and 19.27% for the unvaccinated farm pigs. The swine population in Vojvodina region is enzootically infected with MA virus. Relatively high percentage of seropositive breeding pigs and small number of clinical episodes of the disease per year, suggests that the infection is mostly caused by MA virus strains of mild virulence or that the vaccine virus circulates through the pig population.

Keywords: Morbus Aujeszky, pigs, seroprevalence, Vojvodina

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