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Veterinarni Medicina

Diagnostics of main bacterial agents of porcine respiratory diseases complex (PRDC) using PCR detection of *Mycoplasma hyopneumoniae*

I. Holko, J. Urbanova, T.Holkova, V. Kmet

Veterinarni Medicina, 49 (2004): 35-41

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The main goal of our work is the presentation and analysis of incidence of porcine respiratory disease complex (PRDC) regarding bacterial agents in the territory of northern districts of Slovakia. *Mycoplasma hyopneumoniae* and other secondary bacterial causative pathogens of PRDC comprised 75.2% of all cases (98) with clinical signs of respiratory infections that we examined in the course of one year. We present also one of possibilities to the solution of problematic detection of *M. hyopneumoniae* which is, like the whole rank of mycoplasmas, very difficult to cultivate. This problem was solved by using the PCR method with the direct isolation of *M. hyopneumoniae*

from lungs tissue. In antibiotic sensitivity testing of *Pasteurella multocida* and *Actinobacillus pleuropneumoniae* resulted enrofloxacin as the most effective antibiotics in the therapy of PRDC regarding bacterial agents.in above mentioned territory.

Keywords:

pigs; *Pasteurella multocida*;
Actinobacillus pleuropneumoniae;
Mycoplasma hyopneumoniae; antibiotic sensitivity; PCR

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