

[Study of the virulence of *Actinobacillus pleuropneumoniae* in finishing pigs as a basis for vaccination development].

Hennig-Pauka I, Baltes N, Jacobsen I, Stratmann-Selke J, Gerlach GF, Selbitz HJ, Waldmann KH (0) [Study of the virulence of *Actinobacillus pleuropneumoniae* in finishing pigs as a basis for vaccination development]. *Berl Munch Tierarztl Wochenschr* 121(5-6), 189-197.

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Abstract

For vaccine licensing data about efficiency and duration of protection are essential. Within the scope of the development of a new subunit vaccine against *Actinobacillus pleuropneumoniae* (A.pp.) the protective efficiency over the whole length of the fattening period must be proven. This required infection experiments in finishing pigs. Eight pigs in the age of six months were infected experimentally into the trachea with an A.pp. serotyp 2 strain. To our knowledge data about the susceptibility of pigs of this age do not exist, so that the infectious dose for pigs of this age and this route of infection had to be determined. Two pigs each were infected with different doses of 10^{10} , 6×10^5 , 8×10^3 and 2×10^3 CFU (colony forming units). The aim of the study was to produce a typical pleuropneumonia with fever and severe respiratory symptoms as well as characteristic pathomorphological lung alterations without loss of animals during the acute stage of infection. The pathogen should be cultivated from lung tissue. The recommended dose for testing the efficiency of vaccines turned out to be approximately 10^3 CFU A.pp. serotyp 2.

Beteiligte Forschungseinheiten

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