



BACTERIAL DISEASES

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A SUDDEN MORTAL DISEASE OUTBREAK IN ORGANIC SPF PIGS

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Introduction

Contact with new microbes may be dangerous for pigs of high heath status. This manuscript describes a disease outbreak following allocation of SPF pigs.

Material & Methods

At the weight of 43 kg, 152 SPF pigs born by parity 1-sows were transferred 190 km to a new organic herd rearing fatteners out-doors. The transport vehicle was cleaned and without other animals. At arrival, all pigs were kept on deep straw with access to pasture.

Four days after arrival, lameness was observed in two pigs. Two days later, five pigs were found dead and another 7 depressed (poor balance and/or lame). Affected pigs were treated with benzylpenicillin and/or Vitamin E/Selenium. The following day, more pigs expressed severe depression, dog sitting and paralysis.

Autopsy revealed purulent meningitis with presence of *Streptococcus suis* in the brain in one pig, and early signs of serositis in the abdomen of another pig. All pigs were individually treated with benzylpenicillin procaine for 3 days.

Six weeks after arrival, blood samples were collected from 10 pigs and analysed for presence of antibodies to *Haemophilus parasuis* and *Streptococcus suis* with indirect ELISA-systems.

Results

In total, 11 pigs died and 2 pigs were culled. The remaining 139 pigs regained health and a high DWG.

Six weeks after arrival, all pigs were seropositive to *Haemophilus parasuis* (A_{450} >0.5), and seven pigs had high levels of antibodies (A_{450} >1.1). Two pigs had low levels of antibodies to *Streptococcus suis* (0.54 and 0.68).

Discussion & Conclusion

Infections with *Streptococcus suis* may be lethal. However, the low levels of antibodies only indicated presence of but not a major influence of that bacteria. Instead, the high levels of antibodies to *Haemophilus parasuis* indicated a major influence of that bacteria. It cannot be excluded that the pigs were exposed to *Haemophilus parasuis* during the transport.