



RESIDENT SESSION

RES-001

OUTBREAK OF ENZOOTIC PNEUMONIA IN SWITZERLAND - A CASE REPORT

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Introduction

Enzootic pneumonia is classified as notifiable disease in Switzerland in 2004. The incidence for *M. hyo* outbreaks is below 1% since 2005. In positive cases a cantonal controlled eradication has to be conducted on affected farms. This case report is reporting an enzootic pneumonia outbreak at three fattening farms and the delivering breeding farm.

Material and Methods

At the abattoir *Mycoplasma hyopneumoniae* (*M. hyo*) was detected in lungs of one fattening (farm 1). Due to the positive *M. hyo* result in the slaughter check, a site visit of the fattening farms and the breeding farm was performed. In cases of *M. hyo* suspicion a law regimented standard diagnostic protocol has to be performed. Therefore 10 nasal swabs were taken at all three fattening farms and at the breeding farm. Additionally, 10 tracheal brushes and 20 blood samples were taken from pigs of one fattening farm and the breeding farm.

Results

In all fattening farms and in the breeding farm fattening and weaning pigs showed coughing. All farms were tested positive in nasal swabs and tracheal brushes by PCR. All tracheal brushes and four to eight out of ten nasal swabs were positive for *M. hyo*. Due to the positive results the potential risk for dissemination of the disease within 2km radius was estimated. The breeding farm started a total depopulation of the breeding stock. At the fattening farms all pigs were treated with antibiotics for 14 days and finishing pigs were slaughtered within three months.

Discussion and Conclusions

Farms have to be closed if there is a suspicion of the presence of *M. hyo*. The closure is present during the whole elimination process fattening pigs have to be slaughtered in an appropriate time or culled immediately. Breeding farms might be reconstructed by partial or total depopulation.