



HERD HEALTH MANAGEMENT & ECONOMY

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A NORWEGIAN PROJECT STUDYING OUTBREAKS OF ACUTE RESPIRATORY DISEASE IN FATTENING PIGS

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Introduction

The Norwegian pig population has a favorable health status when viewed in an international perspective. The population is free from *Mycoplasma hyopneumoniae* and several viral agents [(PRRSV, PRCV, SIV (except H1N1pdm09)] involved in respiratory infections in pigs. However, over the last four years, there has been an increase in reported cases of acute respiratory disease in the Norwegian pig population. The project aims to investigate the etiology and risk factors of outbreaks of respiratory disease in Norwegian pig herds.

Material and methods

Practicing veterinarians or project associates are to submit lungs, oral fluids and paired blood samples from animals in 20-25 herds with clinical outbreaks and an equal number of matched control herds with no clinical signs of respiratory disease in the period of October 2017-April 2018. The same biological samples and epidemiological data are collected in the control herds as in the case herds.

Samples are submitted to the Norwegian Veterinary Institute where they are subjected to pathological and histopathological examination, bacteriological culture, characterization and antimicrobial resistance analysis, serology and PCR for agent detection. Lung tissue samples are also collected for microbiome analysis.

Results

The project is at an early stage. At the time of submission, the results of the laboratory investigations are pending, and preliminary data will be presented in the poster.

Discussion & Conclusion

The current project will investigate the complexity of agents and risk factors involved in porcine respiratory disease outbreaks in a pig population with absence of several important respiratory pathogens. Implementing correct and relevant preventive measures are important in order to maintain Norway's favorable status with regard to animal health, welfare and antimicrobial resistance.