



## BACTERIAL DISEASES

BBD-024

### COMPARISON OF THE GROWTH PERFORMANCE OF HEAVY PIGS VACCINATED WITH HYOGEN® OR ANOTHER SINGLE SHOT VACCINE AGAINST *M.HYOPNEUMONIAE* IN ITALY

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#### Introduction

Enzootic pneumonia remains one of the major respiratory diseases of pigs affecting significantly the growth performance of fatteners. In some production systems the vaccination is used for practical reasons even before weaning in suckling piglets. The aim of this trial was to compare the effect of single shot of Hyogen® with another single shot vaccine in the farm condition.

#### Material and methods

A commercial farrow-to-finish farm with 350 sows was selected for the trial. In total 337 pigs of 4 batches were vaccinated with Hyogen® at 1 WOA upon the request of the producer (group G1) and were compared with 271 pigs from 3 batches vaccinated with the Vaccine A also at 1 WOA (group G2). The growth performance was monitored in the fattening units. Lung lesions were scored at the slaughterhouse according to the Ceva Lung Program. The economic balance was calculated using Respinomics™.

#### Results

No side effects were observed in piglets after any of the two vaccines. The ADG in fattening was 0.871kg in pigs of G1 compared to 0.827kg in G2 ( $p > 0.05$ ). The prevalence of lungs with fresh EP-like lesions, the % of affected lung parenchyma out of sick lungs and the % of lungs displaying scars due to old lesions were in the G1 28%, 2% and 1% respectively and in the G2 27%, 2.5% and 3% respectively. The overall economic benefit due to higher ADG was calculated 2.2€ per pig in favour of G1.

#### Conclusion

The single dose of Hyogen® vaccination resulted in higher daily weight gain in the fattening period in comparison with another on-shot Mhyo vaccine. Due to the improvements in the weight gain, Hyogen® vaccination was more profitable in the heavy pig producing farm in Italy.