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TITLE

THE IMPACT OF VACCINATION WITH INGELVAC PROVENZA™ AGAINST IAV-S ON MORTALITY IN A KNOWN PRRS-UNSTABLE POPULATION

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CONTENT

Introduction

Influenza A virus in swine (IAV-S) is significant and costly to the swine industry. Ingelvac Provenza™ (Boehringer Ingelheim Vetmedica, Inc., St. Joseph, MO) is an intranasally administered live attenuated influenza vaccine that can be given to pigs as early as one day of age. The objective of this study was to assess Ingelvac Provenza™ in pigs co-infected with PRRSV and IAV-S in the nursery, compared to pigs not vaccinated for IAV-S in a known PRRS-unstable population.

Materials and methods

An Upper Midwest US growing pig flow sourced from five commercial sow farms was assessed. Expected wean to finish mortality was 3.0% - 4.5%. Historically, all pigs received a commercial PRRS MLV vaccination at weaning. Cough due to IAV-S typically began in September annually. All 5 farms were confirmed IAV-S positive in September 2017. In November 2017, two farms broke with abortions storms and respiratory PRRS. Despite implementing PRRSV stabilization through mass vaccination, farms continued to leak wild type PRRSV to downstream pigs. Pigs were placed sequentially from December 2017-February 2018, into Sites A-E. PRRSV 1-7-4 was detected at all sites throughout the study timeframe. Sites A, B and D were unvaccinated for IAV-S. Site C contained pigs vaccinated with Ingelvac Provenza™ at processing, while Site E was vaccinated at weaning. Mortality was summarized by week in the nursery for each treatment group.

Results and discussion

There were 17,934 Ingelvac Provenza™ vaccinated and 31,113 non IAV-S vaccinated pigs in this study. By week 7, average cumulative nursery mortality for the unvaccinated sites (Site A, B, D) was 3.75% compared to average cumulative mortality of 2.47% in vaccinated sites (Sites C and E). These results demonstrated that Ingelvac Provenza™ was a valuable tool to improve the health and performance of pigs co-infected with both IAV-S and PRRSV in the nursery.