

## HHM-PP-38

### TITLE

#### APPROACHING IAV-S CONTROL WITH A NEW UNIQUE TOOL

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### CONTENT

#### Introduction

Influenza A virus in swine (IAV-S) is significant to the swine industry. Ingelvac Provenza™ (Boehringer Ingelheim Vetmedica, Inc., St. Joseph, MO) is an intranasally administered live attenuated influenza vaccine (LAIV) that can be given to pigs as early as one day of age. The results of two case studies are reported, within two integrated operations in the Midwestern USA, before and after the introduction of Ingelvac Provenza™.

#### Materials and Methods

For both cases, all piglets received Ingelvac Provenza™ at processing. Case 1: From July 2017- January 2018, pigs were vaccinated with Ingelvac Provenza™, and closeouts (5000 sows) were obtained from January 2017- July 2018. Case 2: This case study involves a two sow farm flow (5000 total sows). All piglets in both farms were vaccinated starting July 2017, and maintained existing protocols of PRRSV, Mhp and PCV2 vaccination at weaning; data from January 2014-May 2018 determined performance mean and variance for each KPI. Mortality, ADG, days to market, and closeout market weights, were entered into SPC software. Either means or medians were calculated before/after the intervention of Ingelvac Provenza™.

#### Results and discussion

Case 1: A significant increase in ADG of 0.12lbs/day was observed in the nursery after intervention ( $p<0.05$ ). There was a significant decrease in average nursery mortality rate observed from 3.23% prior to the intervention to 2.27% after ( $p<0.05$ ). In the finisher, there was a significant ADG increase, from 1.88 lb/day before vaccination to 1.93 after ( $p<0.05$ ). Case 2: There was an increase in nursery ADG of 0.08lb/day and a decrease in F:G of 0.03. There was an increase in finisher ADG of 0.09 lbs/day and an F:G decrease of 0.02. A decrease of 6.7 days to market was also observed, with a 3.13 lb. increase in average out weight. This suggests KPIs support field evaluation of Ingelvac Provenza™.