

TITLE

IMPACT ON REPRODUCTION AND NURSERY PERFORMANCE OF THE IMPLEMENTATION OF THE B-ESECURE SYSTEM IN PRRSV POSITIVE FARMS

Inmaculada Diaz¹, Cristina Escudero², Antonio Pelaez², Julian Gonzalez², Ricardo Perez², Carlos Pineiro³, Maria Aparicio²

¹ *Pig CHAMP Pro Europa SL*

² *Pig Champ Pro Europa SL*

³ *Pig Champ Pro Europa S.L.*

CONTENT

Background and Objectives

Biosecurity is a top concern in the swine industry since it affects performance, health and therefore, economic results. Regarding internal biosecurity, movements between barns are the highest risk in swine farms. The objective is to calculate the impact on health and performance of the B-eSecure System (MSD, Madison, NJ, USA) 1 year following implementation.

Material & Methods

The system uses small transmitters to control farm staff movements. During the last 2 years the system has been implemented in 26 farms in 14 countries for a total of 60.000 sows and 500 workers controlled, demonstrating its utility to control or eradicate PRRSV from farms. Moreover, reproductive, health and performance data were collected from 3 of the farms to assess the impact after the implementation of the system including non-productive days (NPD), pre-weaning mortality (PWM) and nursery mortality (NM)

Results

Calculations were based in significant health and performance effects. NPD decreased between 2.6 and 28.2 d /s/y ($P<0.05$), mainly due to repeats and other gestation losses. At a cost of 2 € per NPD, the payback ranges 5.2-56.4 € /s/y. PWM decreased from 23 to 15 %v($P<0.05$), which implied roughly 1 extra weaned piglet and 2.35 piglets more /s/y, which at 30 € per piglet means 70.5 € /s/y. Finally, NM drop from 7 to 4 % ($P<0.05$), which under standard farm conditions with average EU prices means at least 3.0 € extra /s/y. All together, the payback ranged between 78.7-129.9 € /s/y under the conditions of this study.

Discussion & Conclusion

Improving farm staff movements by means of the B-eSecure system and therefore recurrent infections and viremia due to PRRSV shows a clear payback for the main key performance indicators.