

TITLE

SOWS AND PIGLETS VACCINATION AGAINST PCV2 WITH CIRCOVAC® IN A CASE OF EARLY PRRSV INFECTION.

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CONTENT

INTRODUCTION

The efficacy of vaccines may be compromised when piglets are vaccinated at the same time that a PRRS infection occurs. CIRCOVAC® is a PCV2 vaccine registered in sows and piglets. Vaccination in sows and piglets has been shown to be an effective strategy to control clinical and subclinical PCVD in pigs.

MATERIAL AND METHODS.

The study was carried out on a commercial farrow to wean pig farm of 1200 sows. Piglets were vaccinated against PCV2 at 4-6 weeks of age (woa) but at the same age they were infected with the PRRSv.

The objective of this study was to improve the production results in the fattening stage by an optimization of the vaccine program against PCV2. An alternative vaccination protocol was used against PCV2 to avoid piglets vaccination at the same time as PRRSv infection occurred. Two groups were compared in the same period during two consecutive years:

Group 1: piglets vaccinated against PCV2 with Circovac at 4 woa

Group 2: sows and piglets vaccinated against PCV2 with Circovac® at day 90 of gestation (D90) and at 10 woa, respectively.

Results were analyzed by a parametric test Anova.

RESULTS

In total, 30795 pigs were included in the study (group 1: 14335 pigs, group 2: 16460 pigs). In group 1 mortality was 7.09% FCR was 2.51 and ADG 630 gr. and in group 2 mortality was 4.71% ($p < 0.001$), Feed Conversion Ratio (FCR) was 2.44 kg ($p = 0.013$) and Average Daily Gain (ADG) was 660 gr ($p = 0.047$).

DISCUSSION AND CONCLUSIONS

Sows and late piglets vaccination with Circovac® in early PRRSv infection cases in post-weaning stage improves the productive parameters compared to piglets vaccinated against PCV2 at 4 woa (at the same time PRRSv infection) and could contribute to reduce economic impact of PCV2 due to a better control of it.