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EFFECT OF TWO DIFFERENT VACCINE COMBINATIONS AGAINST PCV2 AND MYCOPLASMA HYOPNEUMONIAE (MHYO) ON PIGS' WELL-BEING

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Introduction

Body temperature, acute phase proteins (APPs) and weight gain (ADG) are suitable indicators of inflammation and stress in pigs. The aim of this study was to evaluate the physiological effects of 2 PCV2 and Mhyo vaccines, registered in EU, by measuring these parameters.

Material and Methods

This study was conducted in 3 herds according to the same protocol. One day before weaning, piglets were randomly allocated to 2 vaccine groups and ear tagged. At T0, piglets were weighed individually and vaccinated either with 2 ml of a mixed preparation of Ingelvac CircoFLEX® and Ingelvac MycoFLEX® (Group 1) or with 2 ml of Suvaxyn® Circo+MH (Group 2). Vaccines were used according to their Summary of Product Characteristics. All piglets were individually weighed again 14 days after vaccination. Twenty piglets per treatment group were selected for the assessment of body temperature and APPs (Haptoglobin and C - reactive protein (CRP)) within the 48 hours following vaccination. The serum concentration of Haptoglobin and CRP were measured using a Pig Haptoglobin ELISA kit (Life Diagnostics HAPT-9) and a Pig C-Reactive Protein Elisa kit (Life Diagnostics CRP-9) respectively.

Results

The body temperature was significantly lower in Group 1 than in Group 2, 6 and 24h after vaccination ($p < 0.001$ and $p < 0.05$ respectively). The concentrations of Haptoglobin and CRP were significantly lower in Group 1 compared to Group 2, 24h post-vaccination ($p < 0.001$). Fourteen days after vaccination, ADG was significantly higher in Group 1 compared to Group ($p < 0.05$).

Discussion and Conclusion

The outcome of this study is consistent with other trials showing that vaccination with Ingelvac CircoFLEX® and Ingelvac MycoFLEX® lead to less inflammatory reactions than other M. hyo and PCV2 vaccines. Thus selection of vaccines should be based on efficacy but also on their effect on piglets' well-being.