



IMMUNOLOGY & VACCINOLOGY

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SAFETY OF VEPURED® VACCINE IN TWO DAY OLD PIGLETS

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Introduction

The aim of this study was to evaluate the safety of VEPURED® under laboratory and field conditions.

Material & Methods

Laboratory study: Twenty-six healthy 2-day old piglets were randomly assigned to 2 groups. The piglets were either vaccinated intramuscularly with 1 mL of VEPURED® (n=13) or received 1 mL of PBS (n=13). General reactions (adverse reactions and mortality), local reactions, rectal temperature and productive data were monitored.

Field trial: A multicentre, randomised, placebo-controlled, clinical field trial was carried out in 1,769 2 - 3-day old piglets from five commercial farms. The piglets were either vaccinated intramuscularly with 1 mL of VEPURED® (n= 945) or received 1 mL of PBS (n=824). General reactions (adverse reactions and mortality) were monitored in all the animals included in the study. Local reactions, rectal temperature and productive data were monitored in 150 animals/group.

Results

Laboratory study: No general reactions related to the vaccination were observed during the study. In the evaluation of local reactions at the inoculation site, only mild inflammation was observed in two vaccinated piglets, which had disappeared at 48 hours post-vaccination. Statistical differences were not detected between the body temperature of the vaccinated and non-vaccinated groups. Furthermore, no statistical differences were observed between groups in the weight development of the piglets.

Field trial: No general reactions related to the vaccination were observed during the study. In the evaluation of local reactions, only mild transient inflammation at the injection site was observed in the vaccinated group. Mean rectal temperature in the vaccinated group increased slightly four hours after vaccination and returned to baseline values after 24 hours. Furthermore, no statistical differences were observed between groups in the weight development of the piglets.

Discussion & Conclusion

The results obtained in this study demonstrated that VEPURED® is safe when administered to 2-day old piglets.