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The Reference
in Prevention
for Animal Health

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BACKGROUND AND OBJECTIVES

VEPURED® is a new single-dose vaccine developed to protect piglets against Edema Disease (ED).

A multicenter, randomized, placebo-controlled, field trial was performed to evaluate its efficacy.

MATERIALS AND METHODS

A total of 1769 clinically healthy piglets from five commercial farms in Europe were included.

Piglets were either vaccinated intramuscularly with 1 mL of VEPURED® (n= 945) or given 1mL of phosphate-buffered saline (PLACEBO) (n=824) at 2-3 days of age and monitored up to the end of fattening.

RESULTS

Clinical outbreaks of ED were observed on four out of the five farms whilst the presence of verotoxin-producing E. coli was confirmed by PCR on all farms.

Vaccination with VEPURED® on farms with ED resulted in a statistically significant reduction in mortality (Figure 1) and in the occurrence of clinical signs attributed to the disease.

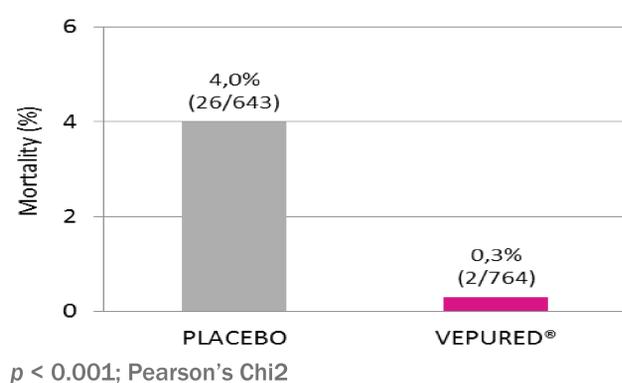
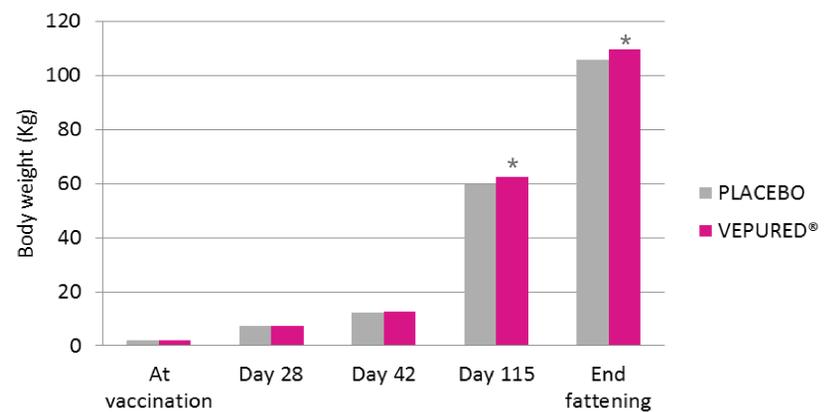


Figure 1. Mortality attributed to Edema Disease.

A statistically significantly higher growth performance was reported in the VEPURED® group compared to that of the PLACEBO group (Figure 2).



* $p < 0.001$; Students t-test

Figure 2. Mean animal body weight progression (kg).

In addition, at the end of fattening a statistically significantly higher average daily weight gain was observed in the VEPURED® group compared to that of the placebo group.

Seroneutralizing antibodies against VT2e were observed in most of the animals vaccinated with VEPURED® up to the end of fattening (Figure 3).

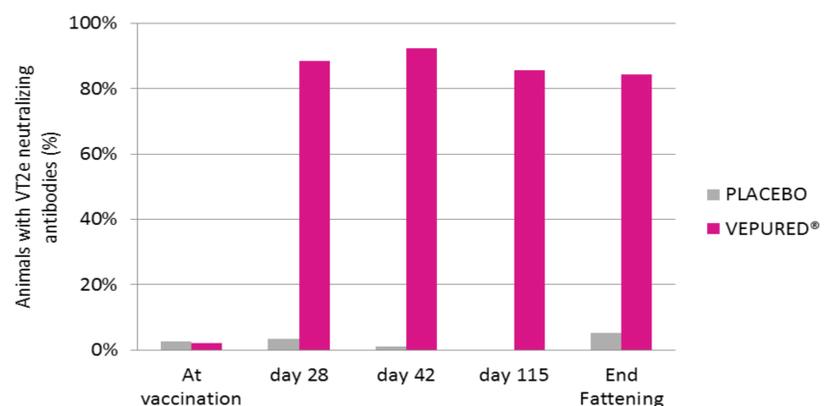


Figure 3. Percentage of animals with VT2e neutralizing antibodies

DISCUSSION AND CONCLUSIONS

Vaccination of piglets with VEPURED® reduces mortality and the occurrence of clinical signs of ED.

VEPURED® improves growth performance of pigs and guarantees the presence of protective seroneutralizing antibodies against VT2e up to the end of fattening in farms with ED.