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TITLE

EARLY APPLICATION OF PARENTERAL TOLTRAZURIL-IRON COMBINATION (FORCERIS®) IS COMPARABLE TO LATER TREATMENT IN THE CONTROL OF EXPERIMENTAL CYSTOISOSPOROSIS IN SUCKLING PIGLETS

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CONTENT

Cystoisosporosis (coccidiosis) is a leading cause of diarrhea in suckling piglets and is controlled by metaphylactic toltrazuril application. Recently, a single-dose combination product (Forceris®) has been developed for the prevention of piglet cystoisosporosis and iron deficiency anaemia. It is applied intramuscularly between the 2nd and 4th day of life (dol) (24 – 96 h after birth). In previous experimental studies, it was shown that treatment with Forceris® on the 2nd dol followed by experimental infection with Cystoisospora suis on the 3rd dol significantly reduced oocyst shedding and diarrhoea and to consequently improves body weight gain and health of the treated piglet compared to an infected untreated control. A subsequent study with experimental infection on the 1st dol and treatment on the 2nd dol was conducted to determine the efficacy of Forceris® when applied after the onset of neonatal infections. Piglets were randomly assigned to the Forceris® group (n=13; 45 mg toltrazuril + 200 mg iron/piglet), and to the Control group (n=12; 200 mg iron/piglet). General animal health was recorded daily and body weight was determined weekly during the study (1st - 29th dol). Individual faecal samples were collected from the 5th - 18th dol and examined for faecal consistency and the presence of oocysts. In the Control group all piglets shed countable oocysts, while the Forceris® group remained negative (p<0.0001). Diarrhoea was seen in all animals in the Control group and in one animal in the Forceris® group (p<0.001). Body weight gain was significantly depressed in the Control group compared to the Forceris® group during the first two weeks after infection (p=<0.0001). Forceris® was safe to use and effective in a single application against experimental infections with C. suis on the 1st dol and can be recommended for treatment of porcine coccidiosis in neonatal piglets.

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