

## **BBD-PP-04**

### **TITLE**

ERADICATION OF TIAMULIN-RESISTANT SWINE DYSENTERY IN A 500 SOW HERD SELLING GROWERS TO FIVE HERDS

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### **CONTENT**

#### Background

Tiamulin-resistant Swine dysentery (SD) developed in a herd with 500 sows in the summer of 2016, following a failing eradication attempt.

#### Materials & methods

SD was still sensitive to tylosin and tylvalosin. A new eradication attempt with extended biosecurity was made. Sows with low appetite or in poor condition were slaughtered. Each sow was estimated to weight 337 Kg and received 1.8 g tylvalosin (Aivlosin®) per os daily for seven days in a previously cleaned unit. Thereafter they were transferred to another cleaned and disinfected unit and treated for another 5 days

Dry sows were treated batchwise (n=7) from week 46 to week 51 in 2016. Units for dry sows, mating and farrowing were sanitised week 45-50. The first piglets born to sanitised sows were weaned week 1:2017. The last non-sanitised growers were sold (30 kg) week 6:2017. Weaner units were sanitised week 1-7.

Tiamulin-resistant SD was diagnosed in all 5 fattening herds that had received growers from the herd. These herds were sanitised after slaughter. All herds were monitored for SD with focus on diarrhoeic pigs.

#### Results

SD has not been diagnosed in the index herd for two years, nor in four of the five fattening herds. The fifth herd did was closed down.

#### Conclusion and discussion

SD was initially sensitive to tiamulin in the index herd. Tiamulin-resistant SD was probably induced by underestimating the weight of sows during the first eradication attempt and/or of growers for sale. SD was still sensitive to tylosin, but also known to rapidly develop tylosin-resistance. Therefore, an extended eradication program in which it was ensured that every sow would get a high dose of tylvalosin was rapidly effectuated. At present, SD has not been diagnosed for two years, and the eradication appear successful. Thus, Sweden again hopefully is free from tiamulin-resistant SD.