

## VVD-PP-24

### TITLE

SAFETY AND EFFICACY OF PRRS VACCINATION IN PIGLETS AT 1 TO 4 DAYS OF AGE IN A FLEMISH FARM

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### CONTENT

#### Background and Objectives

PRRS is an important swine disease and piglet vaccination is being increasingly used in control programs. The current field trial was designed to evaluate the safety and efficacy of early piglet vaccination using a new vaccine.

#### Materials & Methods

On an 1800 sow farm two batches of 90 sows were selected. Piglets from one (S) were vaccinated with Suvaxyn® PRRS MLV at 1-4 days of age (D) and against Mhyo and PCV2 at around 17D. Piglets from the second group (C) were vaccinated around 17D with another PRRS vaccine and the same Mhyo and PCV2 vaccines. Safety of PRRS vaccination was evaluated in S and efficacy in both groups up to slaughter. Production parameters were measured and economic calculations made. Groups were housed separately but in similar conditions.

#### Results

1065 group S piglets were vaccinated for PRRS at 1-4D. No reactions were observed. Body temperature was measured in 30 piglets at vaccination and after 2, 4, 6, 24, 48 and 96h, showing no impact on average temperature and no individual temperature of > 40.5°C. Piglets were weighed at 6, 24 and 48h, showing 45g, 230g and 464g weight gain respectively.

620 pigs per group were followed during the fattening phase, housed at the same farm at the same time in identical units. Pigs from group S spent 127 days in fattening vs 135 for group C. ADWG in S was 31g higher, while corrected FCR (20-100kg) was 0.11 lower. Economic calculation showed a financial improvement of 4.45€ per pig for group S. Circulation of PRRS field virus was confirmed in both groups.

#### Conclusion

Vaccination of piglets with Suvaxyn PRRS mlv at 1-4D was safe. Clinical efficacy of Suvaxyn PRRS MLV was confirmed during fattening.