ONE DOSE OF UNISTRAIN® PRRS IN GESTATING SOWS CLINICALLY PROTECTS AGAINST HETEROLOGOUS PRRS INFECTION

Fenech, M.; Pla, H.; Madeo, X.; Roca, M.; Ros, M.; Sitjà, M.

Hipra, 17170 Amer, Girona, Spain

Corresponding author: mar.fenech@hipra.com

INTRODUCTION

Vaccination is still the principal means used to control Porcine Reproductive and Respiratory Syndrome virus (PRRSV) infection; however the use of modified live

CONCLUSIONS

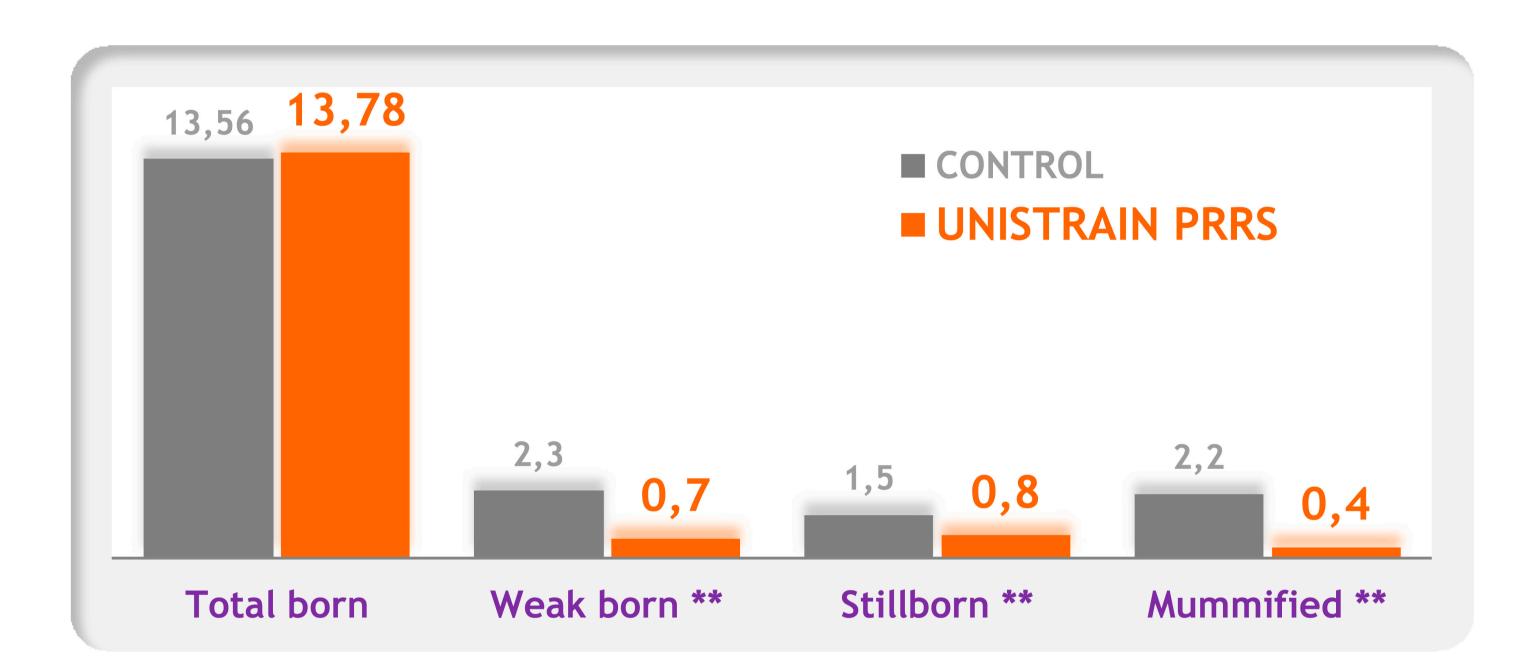
It was clearly confirmed that vaccination with UNISTRAIN[®] PRRS during the second part of gestation was safe and able to reduce reproductive consequences

vaccines (MLV) during gestation has been controversial. After evidences for vaccine-induced protective immunity against non-homologous challenge (1, 2), in this study the heterologous efficacy of UNISTRAIN[®] PRRS was assessed but in naïve gestating sow model. Reproductive performance was the main parameter to claim the efficacy.

MATERIALS AND METHODS

The vaccine was applied at 8-9 weeks of gestation by IM route to 9 naïve sows. A control gestating sows remained unvaccinated. The efficacy was evaluated by means of an IN challenge at 90 days of gestation with a heterologous pathogenic strain of European genotype of a heterologous PRRS infection at third trimester (were sows are more sensitive to the virus).

Figure 1. Reproductive parameters after challenge with PRRSV (*t-test; **Mann-Whitney; p<0.05).



of the PRRSV (Spanish strain isolated at 2007; $10^{6.54}$ CCID₅₀ / sow). This study was carried out under a randomised and blinded basis.

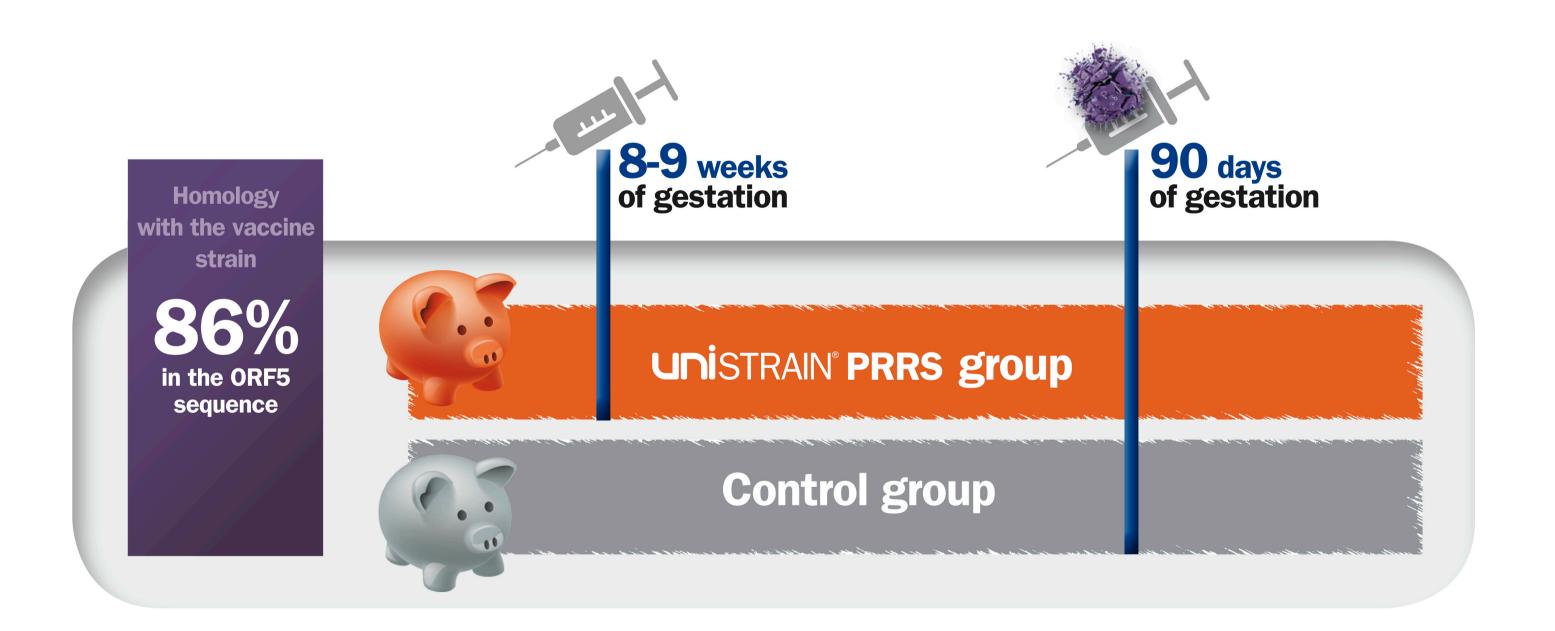
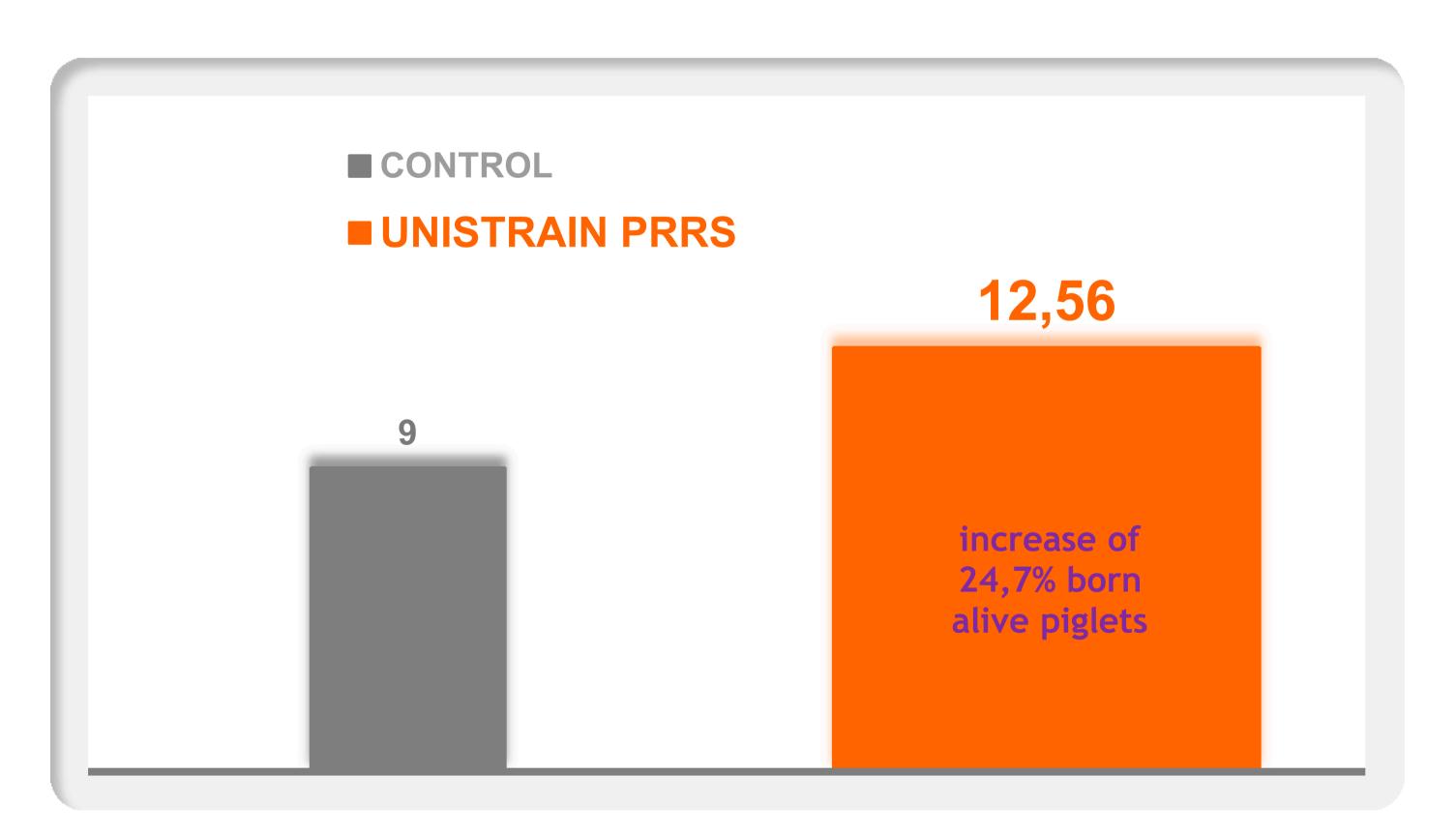


Figure 2. Mean in born alive piglets (t-test; p<0.05).



RESULTS

Vaccination with UNISTRAIN[®] PRRS significantly reduced

BIBLIOGRAPHY

1 Díaz I, et al. Virology 351 (2006): 249-259.

reproductive failure caused by wild-type infection during gestation. After vaccine administration there was not any adverse effect derived from vaccination. No abortion occurred in any vaccinated sow (100% farrowing rate). Vaccination significantly reduced the number of stillborn and the apparition of mummies, also there was and increment of the number of liveborn piglets and a drop in the birth of weak piglets (3, 4). 2 Martínez-Lobo FJ, et al.Vaccine 29 (2011):6928-6940.
3 Labarque, G, et al. Vaccine 22 (2004): 4183-4190.
4 Scortti M, et al.The Vet J 172 (2006b):506-514.



Laboratorios Hipra, S.A. Avda. la Selva, 135 17170 Amer (Girona) Spain

Tel (34) 972 43 06 60 Fax (34) 972 43 06 61 hipra@hipra.com www.hipra.com