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TITLE

SAFETY OF PORCILIS® ERY+PARVO+LEPTO VACCINE AT FARM LEVEL

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CONTENT

Background&Objectives

Use of vaccines with various agents is widely accepted for effectiveness and management convenience. Until now, vaccines containing *Erysipelothrix rhusiopathiae* and Parvovirus in combination are extremely used. Some studies have showed growing seroprevalence against different *Leptospira* serovars, so the introduction of a new multivalent vaccine containing *Leptospira* would be very interesting in porcine market. The aim of this study was to evaluate the safety of a new RTU multivalent vaccine containing these pathogens.

Material &Methods

Three groups of animals tested: Replacement (R): 22 nulliparous sows 6 months age; Gestation (G): 18 sows between 97-106 pregnancy days; and Lactation (L): 18 sows between 10-19 lactation days. There were 3 treatments each group: EPL, Porcilis® Ery+Parvo+Lepto vaccinated; and EP, Porcilis® Ery+Parvo vaccinated (both MSD Animal Health); and 1 control C (not vaccinated). Parameters individually evaluated: systemic reactions; local reactions 24 hours post-vaccination; feed intake (L and G groups); rectal temperature (°C) pre-vaccination (T0) and 24 hours post-vaccination (T24).

Results

Systemic reactions: not found in any animal of the study. Local reactions: not found in control group (as expected), but slight local reaction (less than 1cm) in all vaccinated animals (except 1 EP with less than 2cm) without statistical differences between EPL-EP. Feed intake: all sows ate properly except 4 sows in EP and 1 in EPL, that left a few amount 2 hours post-offering (no statistical differences between groups). Temperature: regarding sampling moment: no statistical differences were found at T0 and T24 between groups. Regarding groups of treatment: in R group, at T24 EPL(40.1°C) and EP(40.1°C) showed an increased temperature respecting T0 (39.4°C and 39.3°C respectively), not showed neither in control group (39.4°C and 39.8°C) (p=0.005) nor L and G.

Discussion & Conclusion

This study suggests Porcilis® Ery+Parvo+Lepto is a very safe product that can be used during gestation and lactation.