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TITLE

THE EFFECT OF TWO DIFFERENT COMBINATIONS OF VACCINES AGAINST MYCOPLASMA HYOPNEUMONIAE AND ACTINOBACILLUS PLEUROPNEUMONIAE IN PIGS' LUNG HEALTH AND PRODUCTION PARAMETERS

Angeliki Katsafadou¹, Lisandros Kalogeropoulos¹, Aristotelis Nanos², Roman Krejci³, Marina Lisgara¹

¹ Ceva Hellas, Athens, Greece

² Evia farm, Kymi, Greece

³ Ceva, Libourne, France

CONTENT

Background and Objectives

Mycoplasma hyopneumoniae (Mhyo) and *Actinobacillus pleuropneumoniae* (A.p) are very common in swine farms worldwide and cause severe respiratory diseases with great economic impact. The control of both pathogens, which very often co-exist, can be accomplished by the use of antimicrobials, by vaccination, and by improvements of management practices and housing conditions. In this study, the effect of two different combinations of vaccines against Mhyo and A.p in pigs' lung health and production parameters was investigated in comparison to each other, in a Greek farm.

Materials and Methods

A farrow to finish herd with 250 sows was selected for the study. 500 animals were vaccinated against Mhyo and A.p with Hyogen® and Coglapix® (group 1), respectively, and 500 with vaccines A and B (group 2). Per farmer's request, both Mhyo vaccines were administered twice, in 7th and 28th day of life. Blind lung evaluation was applied at slaughter by using the Ceva Lung Program and ADG and slaughter weight were recorded.

Results

312 and 352 lungs were examined in groups 1 and 2, respectively. The odds of having Enzootic pneumonia-like lesions were 2.1 times lower ($P < 0.05$) for lungs belonging to group 1 compared to group 2. 7.05% and 9.94% lungs in groups 1 and 2 ($P > 0.05$), respectively, had dorsocaudal pleurisy. The production parameters were measured for 248 pigs in group 1 and 342 in group 2. ADG was 0.71kg (± 0.021) in group 1 and 0.69kg (± 0.034) in group 2 ($P < 0.05$). Also, animals from the first group were on average 2.81kg heavier at slaughter ($P < 0.05$) compared to the second one (adjusted for slaughter-age effect).

Conclusions

Under the conditions of this study, the use of Hyogen® and Coglapix® together had a beneficial effect in pigs' lung health and production parameters compared to the other combination of vaccines.