



BACTERIAL DISEASES

BBD-050

COMPARATIVE FIELD STUDY ON THE EFFICACY OF AIVLOSIN® WATER SOLUBLE GRANULES VERSUS DOXYCYCLINE WATER MEDICATION FOR MYCOPLASMAL PNEUMONIA CONTROL IN A FINISHING UNIT IN ROMANIA

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A field study comparing the efficacy of Tylvalosin (Aivlosin® Water Soluble Granules (WSG), ECO Animal Health Ltd.) with doxycycline was carried out in a large finishing site in Romania for the control of mycoplasmal pneumonia.

Material and methods

There were 8,000 places in 4 buildings, each with a capacity of 2,000 places. 4,000 finishers (2 buildings) were treated on entry with Aivlosin® WSG daily for 5 days at 5 mg tylvalosin /kg bodyweight/day for the control of *Mycoplasma hyopneumoniae* infection. The following week, 4,000 finishers (2 other buildings) were treated on entry with Doxycycline Water Soluble Granules for 5 days at 10 mg doxycycline/kg bodyweight/day. All animals came from the same nursery unit. The lungs of a sub-sample of 600 pigs from the Aivlosin® group and 300 from the Doxycycline group were checked at the slaughterhouse for enzootic pneumonia lesions. Pneumonic lesions were scored 1 to 5 (1 point for any lobe with lesions, regardless of the extent).

Results

The pigs from the Aivlosin® group had 40% lower average lung score than the control group. The pigs in the Aivlosin® group grew faster (+27 g/day), had better feed conversion (- 0.180 kgs feed/kg weight gain) and reached market weight earlier (4 days).

All low-quality pigs from the nursery had been allocated to the Aivlosin® group, resulting in the higher mortality (+0,41%) compared to the control group.

Discussion and conclusion

Despite being lower quality, pigs treated with Aivlosin® WSG at the start of finishing had better lung scores at slaughter and better performance than the pigs in the Doxycycline group. This demonstrated a clear advantage in using Aivlosin® to control mycoplasmal pneumonia at the early stages of production and reduced the amount of antimicrobial used per pig.