



329 Research paper

Comparison of competitive exclusion with classical cleaning and disinfection on bacterial load in pig nursery units

by Luyckx, K., Millet, S., Van Weyenberg, S., Herman, L., Heyndrickx, 2016 BMC Veterinary Research 12: 189

In **Significant Impact Groups:**

Biosecurity \

Species targeted: Pigs;

Age: Young;

Summary:

Colonization of the environment of nursery units by pathogenic micro-organisms is an important factor in the persistence and spread of endemic diseases in pigs and zoonotic pathogens. These pathogens are generally controlled by the use of antibiotics and disinfectants. Since an increasing resistance against these measures has been reported in recent years, methods such as competitive exclusion (CE) are promoted as promising alternatives. Results in this study showed despite sufficient administration of probiotic-type spores, the analysed bacteria did not decrease in number after 3 production rounds in CE units, indicating no competitive exclusion. There was also no effect on feed conversion and faecal consistency (indicator for enteric diseases) was noticed. These results indicate that the CE protocol is not a valuable alternative for classical Cleaning & Disinfection protocols.

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Where to find the original material:

<https://link.springer.com/article/10.1186/s12917-016-0810-9>; <https://doi.org/10.1186/s12917-016-0810-9>

Country: BE