



123 Tools & Checklists

Risk Assessment as a Tool for Improving External Biosecurity at Farm Level

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In Significant Impact Groups:

Biosecurity \External Biosecurity

Species targeted: Pigs; Dairy; Beef;

Age:

Summary:

The study provide a tool for calculating the effects of different biosecurity measures and strategies on the individual farm level. A simple model was developed to assess the risk of disease introduction and the need for biosecurity measures in individual farms. To illustrate the general applicability of the tool, it was applied to theoretical examples of Swedish cattle and pig farms and diseases endemic in those animal species in the EU. The most important factors affecting the risk, and the effect of biosecurity measures were the frequency of between-farm contacts and prevalence of the disease. Model outputs could be used to justify prioritisation of measures or adapting contact patterns. The theoretic exercise of adjusting model inputs and comparing outputs may help veterinary advisors to understand farm-specific risks and motivate farmers to improve biosecurity in their individual farm, as it can be tailored to each farmer's needs and preferences.

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Where to find the original material:

[https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4515931/;](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4515931/)

Country: Sweden;