



75 Research paper

Macrolides and lincosamides in cattle and pigs: Use and development of antimicrobial resistance by Pyörälä, S., Baptiste, K.E., Catry, B., Van Duijkeren, E., Greko, C., Moreno, M.A., Pomba, M.C.M.F., Rantala, M., Ružauskas, M., Sanders, P. and E.J. Threlfall
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in **Significant Impact Group(s)**: Prudent use AB ; AMU reduction strategies

Species targeted: Pigs; Dairy; Beef;

Age: Young; Adult;

Outcome Parameter(s): Antimicrobial resistance to macrolides; Antimicrobial resistance to lincosamides; Antimicrobial use of macrolides; Antimicrobial use of lincosamides

Summary: Macrolides and lincosamides (ML) are important antimicrobials for the treatment of infections in cattle and pigs, although rarely the only alternative. The most common indications for ML are the treatment of major swine gastrointestinal and respiratory infections and of bovine respiratory disease. There are quite a large number of old products containing ML in the EU, and updating and harmonising the dosing regimens of these products are necessary. Acquired resistance to ML antimicrobials has emerged, with the greatest increase in resistance in *Brachyspira*. In-feed medications and long-acting injections resulting in low concentrations of the active substance for long periods may particularly contribute to the development of antimicrobial resistance. Macrolides are considered as critically important and lincosamides as highly important in human medicine, although mostly for non-food-borne infections. Prudent use of ML antimicrobials approved for food animals is of crucial importance to maintain the efficacy of these important therapeutic alternatives.

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<https://www.sciencedirect.com/science/article/pii/S1090023314000823>;

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