



303 Research paper

Antimicrobial Usage and -Resistance in Livestock: Where Should We Focus?

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In Significant Impact Groups:

AMU reduction strategies \ Monitoring and surveillance Antibiotic

Species targeted: Pigs;Poultry;Dairy;Beef;Sheep;

Age: Different for different species;Not stated;

Summary:

Antimicrobials play a crucial role in animal health, animal welfare, and food-safety . However, a not yet quantifiable share of the burden of AMR is attributable to the use of antimicrobials in livestock production. Resistant bacteria can be introduced into the environment in many ways, such as the land application of livestock manure as fertilizer. Our understanding of AMR in livestock production is hampered by the lack of antimicrobial usage (AMU) data in many countries. AMR development and spread is driven by human behaviour, from the prescription of antimicrobials to infection prevention and control. This complexity necessitates the need for highly interdisciplinary research approaches, comprising humans, animals, and the wider environment. In line with the WHO global action plan on AMR, research should be prioritized toward understanding the social/behavioural drivers of AMU and AMR, establishing/improving systems to monitor AMU, and encouraging a holistic approach to AMR through the One-Health concept.

303 Research paper - Magouras - 2017 - Antimicrobial Usage and -Resistance in Livestock_ Where Should We Focus

Where to find the original material:

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