



409 Research paper

Antibiotic use and resistance in animals: Belgian initiatives

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In **Significant Impact Groups:**

Prudent use AB \ Veterinarian

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

Age: Not stated;

Summary:

The widespread use of antibiotics in animals is causing concerns about the growing risk for development and the spread of antibiotic-resistant bacteria. Antibiotic consumption is higher in animals than in humans as reported in a joint publication of EFSA (European Food Safety Agency), ECDC (European Centre for Disease Prevention and Control), and EMA (European Medicines Agency) using data from 2011 and 2012. Both in humans and animals, positive associations between the consumption of antibiotics and resistant bacteria are observed. Responsible use of antibiotics in humans and animals should therefore be promoted. In this paper some general aspects of antibiotic resistance such as microbiological versus clinical resistance, intrinsic versus acquired resistance, resistance mechanisms, and transfer of resistance are briefly introduced.

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Where to find the original material:

<https://onlinelibrary.wiley.com/doi/full/10.1002/dta.2010>; <https://doi.org/10.1002/dta.2010>

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