Antimicrobial Resistance in Veterinary Medicine Challenges and Strategies for Mitigation

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Abstract

Antimicrobial resistance (AMR) poses a signifcant threat to public health, animal health, and food security. In veterinary medicine, the overuse and misuse of antibiotics have contributed to the emergence of resistant pathogens, complicating treatment options for infections in animals and posing risks to human health through the food chain and direct contact. This article explores the factors contributing to AMR in veterinary medicine, the implications for animal health and welfare, and strategies for mitigating resistance through responsible antimicrobial use, surveillance, and education.

Keywords:

Introduction

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Environmental Exposure

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Economic Consequences

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