The animal welfare aspects of One Health and antimicrobial resistance

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What is one health?

A one health approach recognizes the relationships between the human, animal, and environmental health, and applies interdisciplinary tools to solve complex public health problems.

Source: Gael Lamielle
The most important global risks for humans, animals and the environment

Climate change

Over-population

Resistance to antimicrobial drugs

Infectious diseases
  - Avian influenza
  - Rabies
Dealing with health risks through a One Health approach contributes to the welfare of companion animals, production animals and wildlife alike.

Preventing Obesity in People and Their Pets: A One Health Approach
November 10-11, 2016
Atlanta, GA

Vision: A world where regular activity, a balanced diet and healthy weight are part of every family’s life.

Food safety
Animal assisted therapies
Natural disaster management
The One Welfare concept - new concept with an aim to improve animal welfare and human well-being worldwide

A one health approach recognizes the relationships between the human, animal, and environmental health, and applies interdisciplinary tools to solve complex public health problems.
Antimicrobial resistance – a major One Health issue for the entire planet

Frequently asked questions

Do animals suffer the same consequences of AMR?

Are animals affected by AMR to the same extent as human beings?

Will the continuing emergence of AMR compromise the welfare of animals?

Will banning the use of antibiotics adversely affect the welfare of animals?
“Superbugs”

Applying definitions for multidrug resistance, extensive drug resistance and pandrug resistance to clinically significant livestock and companion animal bacterial pathogens

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Examples of MDR, XDR and PDR in animals

Bovine and porcine respiratory tract infections
MRSA
ESBL-producing bacteria
- Both can cause opportunistic life-threatening infections in animals
MDR ear infections in dogs
Antibiotic Stewardship

Antibiotic stewardship is a collective set of strategies to optimize the use of all antibiotics to improve patient outcome and limit emergence of resistant bacteria whilst ensuring patient safety.

Its most basic recommendation is that everyone should use antibiotics responsibly and only when necessary, both for the benefit of humans and the animals we care for.
The veterinary and para-veterinary professions

Should embrace the One Health / One Welfare concepts and approaches, and the stewardship of antibiotics in its entirety

The use of antibiotics for the welfare of animals is justifiable within the confines of antibiotic stewardship strategies