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ANTIMICRÖBIALS — WITH CARE —

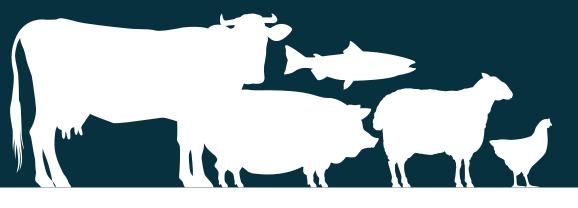
Antimicrobials were discovered in the 20th century and have made a larger contribution to life expectancy than any other medication. **Antimicrobials have transformed human and veterinary medicine.**

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THEY SAVE LIVES!

Nowadays, the emergence of resistance is a **major concern:** effective medecines to control and treat animal and human diseases may soon no longer work. Antimicrobial resistance is a major threat to animal health and welfare, food supply and food safety – worldwide.

> WE NEED YOU TO ACT NOW TO PRESERVE ANTIMICROBIAL EFFICACY FOR TOMORROW.





WORLD ORGANISATION FOR ANIMAL HEALTH *Protecting animals, preserving our future*

Veterinarians

WHAT IS ANTIMICROBIAL RESISTANCE AND HOW IT IS THREATENING US?

- Once bacteria are resistant, the antimicrobial agent (or medicine) is ineffective and can no longer help to control or treat diseases. This phenomenon is called antimicrobial resistance (AMR).
- Antimicrobial resistance is a threat to the health and welfare of animals, whether aquatic or terrestrial. **Resistant bacteria can circulate between humans, animals and the environment and do not respect borders.** It is therefore, a global human and animal health concern.
- Misuse and overuse of antimicrobials in animals, humans or plants is a major factor driving the emergence and development of antimicrobial resistance. Indeed, any inappropriate use of antimicrobials (unnecessary use, use against non-susceptible bacteria or virus, under-dosage, etc.) increases the risk of resistance development.

WE NEED

YOU ARE THE HEADLINERS

We all have a role to play, and **YOU**, as veterinarians or aquatic animal health professionals, **CAN HELP**. Being in contact with both animals and farmers, **you are the frontline on the battle front of antimicrobial resistance.**

Together, we need to **ensure the responsible and prudent use** of antimicrobials in animals to preserve efficacy.

Tackling pathogen resistance to antimicrobials is a priority objective of the World Organisation for Animal Health (OIE). Through its international Standards, the OIE advocates responsible and prudent use of antimicrobial agents – essential to animal health and welfare – **by well-trained veterinarians.** The key aspects of your role according to these Standards are presented in the following pages.



www.oie-antimicrobial.com

What can you do?

USE ANTIMICROBIALS RESPONSIBLY AND PRUDENTLY AND ADVISE YOUR CLIENTS TO PRESERVE ANTIMICROBIALS' EFFICACY



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When and how should antimicrobials be used?

- **Only after a clinical examination** of the animal(s) by a veterinarian or trained animal health professional.
- Only when necessary taking into consideration the OIE List of antimicrobial agents of veterinary importance.
- Only in addition and never in replacement of good animal husbandry practices, hygiene, biosecurity and vaccination programmes.
- Only by making an appropriate choice of antimicrobial agent based on clinical experience and diagnostic laboratory information when possible.
- Always in addition to detailed information on treatment protocols and withdrawal times.

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Choice of antimicrobial

How to choose the appropriate antimicrobial?

Take into account:

- Farm records of previous antimicrobial use and epidemiological history of the farm.
- Clinical experience and diagnostic insight.
- Diagnostic laboratory information when available (culture and sensitivity testing).
- Pharmacodynamics (activity against pathogens involved).
- **Pharmacokinetics** (tissue distribution, efficacy at infection site).
- The **OIE list of antimicrobials** of veterinary importance when choosing your treatment.

What to do if first-line treatment fails?

- Second-line treatment should be based on results of diagnostic tests including sensitivity testing.
- In the absence of test results a different class or sub-class should be used.

Can combinations of antimicrobials be used?

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• Only if supported by scientific evidence.

Appropriate use & prescriptions

What should be written on the prescription for antimicrobials?

- **Dosage regimen** (dose, treatment intervals, duration of treatment).
- Withdrawal periods for meat and milk.
- Amount of antimicrobial (to be) provided, depending on dosage and number of animals.
- Labelling of all veterinary drugs supplied.

When is extra-label or off-label antimicrobial used allowed?

- In agreement with national legislation.
- When appropriate registered product isn't available.
- With client informed consent.

It is the veterinarian's responsibility to define the conditions of responsible use including the dosage regimes, route of administration and withdrawal period in these cases taking into account recommendations of the OIE List.



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What data should be recorded by the vet?

- Quantities of antimicrobials used per animal species.
- **Details of all antimicrobials supplied** to each farm.
- **Treatment schedules** (including animal ID and withdrawal period).
- Antimicrobial susceptibility data.
- Comments concerning the **response** of animals to treatment.
- Adverse reactions including lack of response due to antimicrobial resistance.



Why?

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• To help keep your knowledge up-to-date and to ensure implementation of good practices of antimicrobial use.

About what?

- Information on **disease prevention** and **management.**
- The ability of antimicrobials to select for resistance, and the importance for human and animal health.
- The need to observe responsible and prudent use recommendations.
- Appropriate storage conditions and proper disposal.
- Record keeping.

What guidelines should be developed?

 Veterinary professional organisations should develop species-specific clinical practice recommendations for the responsible and prudent use of antimicrobials. ۲

For more details, refer to the OIE international standards:

- Article 6.9.6. Responsibilities of veterinarians of the OIE Terrestrial Animal Health Code.
- Article 6.2.7. Responsibilities of veterinarians and other aquatic animal health professionals of the OIE Aquatic Animal Health Code.
- OIE List of antimicrobial agents of veterinary importance.

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