

**What can different stakeholders do for
the prudent use of antimicrobials
in the veterinary sector?**

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Goal

Effective antibiotics as long as possible



What can the
NCA do?

In general



- Inspires development of antibiotics (period of protection of the technical documentation)
- Designates antibiotics to be reserved for treatment of certain human infections
- Restricts off-label use
- Veterinary prescription
- Limits financial incentives
- AMR-monitoring
- Communication, education

What can the
NCA do?

Authorization of antibiotics

High risk: refusal

Acceptable risk: warnings and precautions in the product literature, dosing recommendations

- No general indication (named target pathogens should be included)
- Combinations of antibiotics – only in case of synergistic activity
- Prevention: NO!
- Prescription only medicines; the quantity prescribed and shall be restricted to the minimum amount required for the therapy concerned.
- Suitable pack size (no leftovers)

What can the
NCA do?

After issuing the Marketing Authorization

- Potential risks should be balanced by the benefits during the whole life-time of the product
- Renewal, variations
- Pharmacovigilance activity
 - Lack of effect – resistance?
- Advertising of VMPs – comply with SCP, encourage prudent use
- Referrals (e.g. 3rd and 4th generation cephalosporins)

What can the
NCA do?

An example: Revision of MA-s of premixes for medicated feeding stuff

Premixes for medicated feeding stuff: a fundamental issue in Hungary

- Mainly preventive or metafilactic use
- Built in technology to compensate for poor hygiene, inadequate animal husbandry or poor farm management
- Mainly tetracyclines – resistance is very frequent

2016: re-examination of 70 premixes:
23 variations
14 deletions

What can the
NCA do?

Control of the use of antibiotics

- Collect relevant and comparable data on volumes of sales
- Collect data on the use of antibiotics used in animals
- Risk-based controls of manufacturers, distributors, retailers, MA holders, farms, feed mills and veterinarians
- Restrictions, penalties

What can the
manufacturer,
MAH,
wholesaler
and retailer
do?

Responsible distribution



- Complies with GMP, GDP
- Supplies VMPs only to persons permitted to carry out certain activities
- No incentives for excessive prescription/use of antibiotics
- Advertises responsibly
- If the benefit-risk ration changes, submits a variation to NCA
- Develops vaccines and diagnostic tools
- Being content with less profit...



What can the
veterinarian
do?

Prudent use of antibiotics

- Prevention of diseases (biosecurity, vaccination, good husbandry, feeding, transport and farm management)
- Searching for alternative treatment methods
- Use of antibiotics only in justified cases
- No transfer of responsibility to other persons
- Clinical examination of animals before treatment
- Targeted therapy on the basis of testing sensitivity (if possible)
- Uses the most appropriate antibiotics (PD/PK, narrow spectrum, no combinations)
- Selection of antibiotics is not influenced by financial incentives

What can the
veterinarian
do?

Prudent use of antibiotics

- Preferably individual treatment
- Treatment with appropriate dose and for appropriate duration
- Considers the risks of adverse effects
- Preserves critically important antibiotics
- Off-label use and cascade use only in justified cases
- No use of antibiotics in the absence of disease
- Reports adverse effects
- Follows the therapy
- Informs owners and keepers appropriately
- Takes responsibility for the environment, for people and for the future

What can the animal owner do?

Prudent use of antibiotics



- Does not skip or influence the veterinarian in selection of antibiotics
- Keeps to the veterinarian's advice
- Cooperates with the veterinarian
- Respects the prescribed dose and treatment duration
- Monitors the feed/water consumption in case of mass medication
- Observes the withdrawal period
- Improves technology and farm management

What can anybody do?

Pays attention and gets conscious



- Buys food which was produced with less or no antibiotics
- Chooses a doctor/veterinarian who uses antibiotics with responsibility
- Keeps to the doctor's/veterinarian's advice as for the the prescribed dose and treatment duration
- Does not use antibiotics without the advice of a doctor/veterinarian
- Takes responsibility for the future

Thank you for your attention!