Efforts by the US Food and Drug Administration's Center for Veterinary Medicine to Address Antimicrobial Resistance

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What does CVM think about antimicrobial resistance?

- Antimicrobial resistance is a growing public health concern.
- Developing strategies for reducing antimicrobial resistance is critically important for protecting both public and animal health.
- CVM is committed to working with animal drug sponsors, the veterinary and public health communities, the animal agriculture industry, researchers, and the public, together with U.S. government agencies and the international community to develop practical strategies to address antimicrobial resistance concerns.



Microbial Food Safety

- Part of the evaluation for approval (the Human Food Safety technical section) of a drug for a food-producing species
- Guidance for Industry 152: Evaluating the Safety of Antimicrobial New Animal Drugs with Regard to Their Microbiological Effects on Bacteria of Human Health Concern
- Guidance for Industry 159 (VICH GL-36): Studies to Evaluate the Safety of Residues of Veterinary Drugs in Human Food: General Approach to Establish a Microbiological ADI









Prohibitions on Extra-Label Use in Food Animals (21 CFR 530.21)

- Chloramphenicol
- Clenbuterol
- Diethylstilbestrol (DES)
- Dimetridazole
- Ipronidazole
- Other nitroimidazoles
- Furazolidone, nitrofurazone, and other nitrofurans

- Fluoroquinolones
- Glycopeptides
- Sulfonamides in lactating dairy cattle (except approved use of sulfadimethoxine, sulfabromomethazine, and sulfaethoxypyridazine)
- Phenylbutazone in female dairy cattle ≥ 20 months old
- Adamantane and neuraminidase inhibitor classes of drugs approved for treating or preventing influenza A- in chickens, turkeys, ducks

Draft Guidance 209 "The Judicious Use of Medically Important Antimicrobial Drugs in Food-Producing Animals"

> FDA recommends that the use of medically important antimicrobial drugs in food-producing animals be limited to situations where:

1. The use is necessary for assuring animal health (e.g., not for the purpose of increasing growth or feed efficiency), and

2. There is veterinary oversight or consultation







Additional Research Efforts

 Development and validation of analytical methods for detection of drugs and other compounds in fish (and other animal) tissue and feed

- Clinical and Laboratory Standards Institute (CLSI) Subcommittee on Veterinary Antimicrobial Susceptibility Testing-Aquaculture Working Group (VAST-AWG)
 – Charlie Gieseker will present on current research
- Phish-Pharm: a searchable online database of drug residue data and PK parameters in fish reported in literature





