VFD

Veterinary Feed Directive

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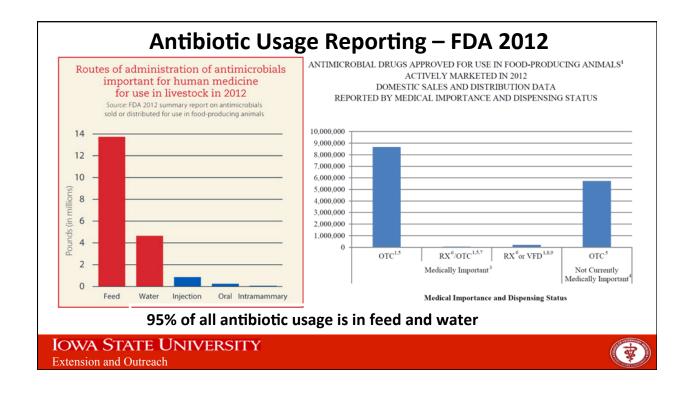


Agenda

- Background
- FDA regulations
- VFD
- Veterinary Client Patient Relationship (VCPR)
- Minor species







FDA Guidance for Industry 152

Finalized 2003

"Evaluating the Safety of Antimicrobial New Animal Drugs with Regard to their Microbiological Effects on Bacteria of Human Health Concern"

- Discusses the use of antibiotics in herds or flocks for production purposes
- Classified all antibiotics into 2 classes
 - Medically Important for Human Use
 - Non-medically Important for Human Use

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Medically Important Antimicrobial Drugs

- Critically Important
 - Ceftiofur
 - Flouroquinolones
 - Macrolides
 - Sulfas
- Important
 - Everything else

- Highly Important
 - Penicillins
 - Tetracyclines
 - Phenicols
- Not Important
 - Ionophores
 - Bambermycins
 - Bacitracin

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FDA Guidance for Industry 209

Released in 2010, Finalized 2012

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

 Specifically addresses use of antibiotics in food producing animals for production or growthenhancement purposes

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FDA Rational

- Misuse and overuse of antimicrobial drugs enables antimicrobial resistant bacteria to increase in numbers
- Human important drugs must be used judiciously in both animal and human medicine to slow the development of resistance.

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Key Principles from GFI 209

Principle 1: The use of medically important antimicrobial drugs in food-producing animals should be limited to those uses that are considered necessary for assuring animal health.

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FDA Guidance for Industry 209

Released in 2010, Finalized 2012

• FDA believes the use of medically important antimicrobial drugs in food-producing animals for **production** purposes (e.g., to promote growth or improve feed efficiency) represents an **injudicious** (**not judicious**) use of these important drugs



FDA Guidance for Industry 209

Released in 2010, Finalized 2012

 FDA considers uses that are associated with the treatment, control, or prevention of specific diseases, including administration through feed or water, to be uses that are necessary for assuring the health of food-producing animals

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Key Principles from GFI 209

Principle 2: The use of medically important antimicrobial drugs in food-producing animals should be limited to those uses that include veterinary oversight or consultation.



FDA Guidance for Industry 209

Released in 2010, Finalized 2012

 Most of the **feed-use** antimicrobial drugs are currently approved for over-the-counter use in food-producing animals for purposes that include the treatment, control, and prevention of disease as well as for production purposes

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FDA Guidance for Industry 213

Released 2012, Finalized December 2013

 "New Animal Drugs and New Animal Drug Combination Products Administered in or on Medicated Feed or Drinking Water of Food-Producing Animals: Recommendations for Drug Sponsors for Voluntarily Aligning Product Use Conditions with GFI #209"



Summary of GFI 213

- Identifies medically important antimicrobials
 - All drugs listed in GFI 152 Appendix
- Describes the process for voluntarily phasing out antibiotics for production purposes
- Discusses the phasing in of veterinary oversight for all therapeutic uses of antibiotics in the feed or water
- Also provides a timeline for implementation (December 2016)

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Take Home Message?

- Label indications for production purposes will be removed
 - Voluntary change
 - Effective December 2016

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Take Home Message?

- Restrictions on OTC feed-grade or OTC water soluble antibiotics
 - Water soluble products will become Rx
 - Products used in or on feed will become VFD
- DOES NOT APPLY to injectable antibiotics

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Take Home Message? A Veterinary Feed Directive (VFD) will be required to:

- Obtain and use antibiotics that are delivered in the feed
- Obtain and use products that already contain an antibiotic
 - Bagged feeds, mineral blocks, milk replacer, etc.
- A prescription will be required to:
 - Obtain and use antibiotics that are delivered in the water



Generic CTC (Chlortetracycline) 100 NADA 48-480

Generic Name: chlortetracycline hydrochloride granule Dosage Form: FOR ANIMAL USE ONLY

Calves

DOSAGE LEVEL INDICATIONS FOR USE

0.1 mg/lb. body Calves (up to 250 lbs.): For an increased rate of body weight gain & improved feed

wt daily efficiency

25-70 Calves (250-400 lbs.) For an increased rate of weight gain and improved feed efficiency

mg/head/day

WARNING: A withdrawal period has not been established for this product in pre-ruminating calves.

Do not use in calves to be processed for veal.

Increased rate of body weight gain & Improved Feed Efficiency

will be removed

Growing Cattle

DOSAGE LEVEL INDICATION FOR USE

70mg/head/day Growing cattle (over 400 lbs.): For increased rate of weight gain, improved feed efficiency &

reduction of liver condemnation due to liver abscesses. Wording might be changed to read:

Zero-Day withdrawal period

WARNING: A withdrawal period has not been established for this product In pre-ruminating calves. Do not use in calves to be processed for veal. "For reduction of incidence of liver abscesses in beef cattle associated

w/ Fusobacterium necrophorum & Arcanobacterium pyogenes"

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Affected feed-use antibiotics

Antimicrobial Class	Specific drugs approved for use in feed
Aminoglycosides	Apramycin, Hygromycin B, Neomycin, Streptomycin
Diaminopyrimidines	Ormetoprim
Lincosamides	Lincomycin
Macrolides	Erythromycin, Oleandomycin, Tylosin
Penicillins	Penicillin
Streptogramins	Virginiamycin
Sulfas	Sulfadimethoxine, Sulfamerazine, Sulfamethazine, Sulfaquinoxaline
Tetracycline	Chlortetracycline, Oxytetracycline

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Affected water-use antibiotics

Antimicrobial Class	Specific drugs approved for use in water
Aminoglycosides	Apramycin, Gentamicin, Neomycin, Spectinomycin, Streptomycin
Lincosamides	Lincomycin
Macrolides	Carbomycin, Erythromycin, <u>Tylosin</u>
Penicillins	Penicillin
Sulfas	Sulfachloropyrazine, Sulfachlorpyridazine, Sulfadimethoxine, Sulfamerazine, Sulfamethazine, Sulfaquinoxaline
Tetracycline	Chlortetracycline, Oxytetracycline, Tetracycline

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Antibiotics NOT affected by Guidance 209/213

- Antibiotics that are already VFD or Rx based:
 - avilamycin, florfenicol, tilmicosin; or Rx Tylosin.
- Antibiotics that are not medically important:
 - Ionophores (monensin, lasalocid, narasin (Skycis, etc.)
 - Bacitracin (BMD, bacitracin zinc)
 - Bambermycins (Flavomycin, GainPro)
 - Carbadox (Mecadox)
- Other drugs (that are not antibiotics), including:
 - Anthelmentics: Coumaphos, Fenbendazole, Ivermectin
 - Beta agonists: Ractopamine, Zilpaterol
 - Coccidiostats: Clopidol, Decoquinate, Diclazuril

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Caveat

 While FDA believes that all medically important antimicrobial new animal drug products should be marketed with the appropriate professional oversight restriction, at this time FDA is most concerned with medically important antimicrobial new animal drugs and combination new animal drug products intended for use in or on the feed or water of food-producing animals.

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Veterinary Feed Directive

- 1996 Animal Drug Availability Act
- Alternative status for feed medication
- Written directive
- Requires VCPR



Veterinary Feed Directive (VFD)

- An order for utilizing "medically important" antibiotics in animal feed.
 - Functionally works just like a prescription
 - Technically not a prescription
- It requires a VFD from a veterinarian with whom the producer has a valid VCPR.
 - Veterinarian is responsible for filling it our correctly, based on the correct information from the producer.
- Producer (or the veterinarian) will need to get the VFD to the feed mill to manufacture the feed.

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Veterinary Feed Directive (VFD)

- New Requirements:
 - VCPR
 - · State or Federal
 - Electronic signature and transmittal acceptable
 - Telephone VFDs still not allowed
 - Estimate of tons of feed no longer required
 - Replaced by estimate of number of animals

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Extra-Label Drug Use (ELDU)

- Extra-label use of feed additive antibiotics is illegal
 - Extra-label use is using a drug at a dose, by a route, for a condition or indication, in a species, or for a duration not described on the label

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Implementation Timeline Summary

- January 1, 2017
- Implementation date for all medically important antimicrobials for use in or on feed to require a VFD



What do you need to do for a VFD

Working relationship with your veterinarian (VCPR)

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Veterinarian-Client-Patient-Relationship (VCPR)

- 1. A veterinarian has assumed the responsibility for making medical judgments regarding the health of (an) animal(s) and the need for medical treatment, and the client (the owner of the animal or animals or other caretaker) has agreed to follow the instructions of the veterinarian;
- 2. There is sufficient knowledge of the animal(s) by the veterinarian to initiate at least a general or preliminary diagnosis of the medical condition of the animal(s); and
- 3. The practicing veterinarian is readily available for follow-up in case of adverse reactions or failure of the regimen of therapy. Such a relationship can exist only when the veterinarian has recently seen and is personally acquainted with the keeping and care of the animal(s) by virtue of examination of the animal(s), and/or by medically appropriate and timely visits to the premises where the animal(s) are kept.

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VCPR Clarification

- Veterinarian must be licensed in state where animals reside
- Veterinarian does not need to make diagnosis but responsible for disease diagnosis protocol and training
- Livestock producer/management willing to abide by protocol

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Veterinary Feed Directive

Veterinarian: Grant Dewell Address: 1600 S 16th Street Ames, IA 50011

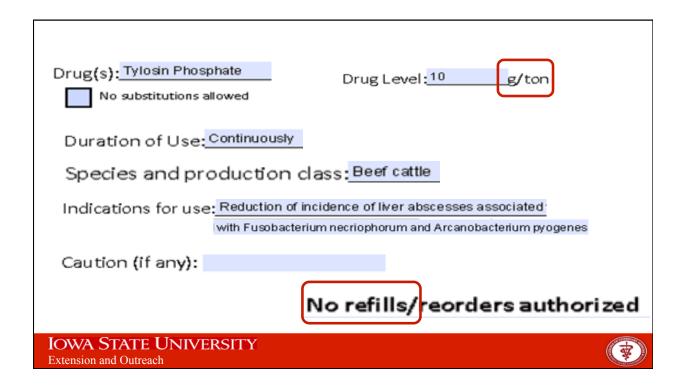
Phone: 515-294-7595

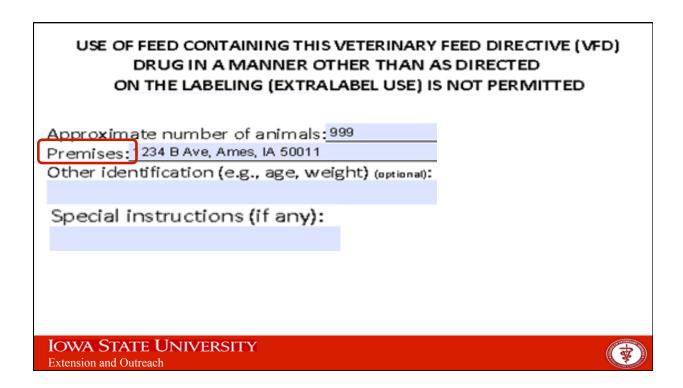
Fax or email (optional):

Client: XYZ Feedlot

Address: 1234 B Ave Ames,IA 50011

Phone: 515-123-4567 Fax or email (optional):





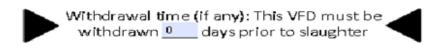
Affirmation of intent (for combinat	ion of VFD drugs) (mark one statement)
This VFD only authorizes the in this order and is not inter of such drug(s) in combination	
this order in the following approved, or indexed of	use of the VFD drug(s) cited in g FDA-approved, conditionally ombination(s) in medicated /FD drug(s) as a component:
Drug(s)	Drug Level(s) and Any Special Instructions
Drug(s)_Row_1	

Affirmation of intent (for combination of VFD drugs) (mark one statement)

This VFD authorizes the use of the VFD drug(s) cited in this order in any FDA-approved, conditionally approved, or indexed combination(s) in medicated feed that contains the VFD drug(s) as a component.

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VFD date of issuance (month/day/year): 01/01/2017

VFD expiration date (month/day/year): 06/30/2017

Veterinarian's signature:

All parties must retain a copy of this VFD for 2 years after the date of issuance

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Producer Responsibilities

- Only use feed containing VFD drug with a valid VFD issued by licensed veterinarian
- Follow VFD/label directions in terms of dose, duration, etc.
- Do not feed VFD feed after expiration date
- Provide a copy VFD order to feed distributer if necessary
- Maintain copy of VFD for 2 years
- Provide VFD orders to FDA on request



FDA Expectations

- Expect reduction in quantity of medically important antibiotics
- Expect Veterinarians to be gatekeeper

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Inspections

- FDA beginning VFD inspections "Pilot Project"
- First inspect distributors
 - Will evaluate 3 randomly selected VFD forms
 - Will pick 1 to trace back to veterinarian and producer
- Looking for all the required information, evidence of VCPR, feed records, etc.



Enforcement

Focus will initially be on education and guidance

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Minor Species

- CPG Sec 615.115 Extra-Label Use of Medicated Feeds for Minor Species
- The use or intended use of medicated feeds for treating animals in any manner other than in accordance with the approved labeling causes the drug used in the feed to be adulterated



Minor Species

 Nevertheless, extra-label use of medicated feed for treatment of minor species may be considered when the health of animals is threatened and suffering or death would result from failure to treat the affected animals. In instances of this nature, the agency will not ordinarily consider regulatory action against the veterinarian or animal producer provided all of the circumstances listed below exist.

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Minor Species

- Only for treatment of minor species
- Drug approved for major species
- Feed approved major species
- Express prior written recommendation veterinarian, oversight, VCPR



Minor Species

- FDA currently reviewing this policy
- Expect a new policy related to ELDU VFD drugs for Minor Species

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Minor Species

- Feedmills are unwilling to formulate VFD feed ELDU
- Expect it will still be allowable in the future
- Source?



Thank You







