Using Feed-Grade Antibiotics in Livestock:

What Changes Should We Prepare For?



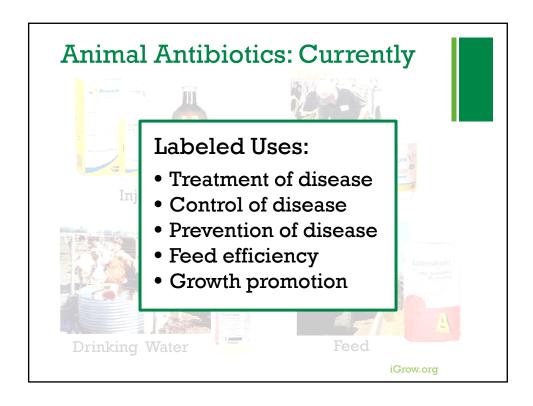


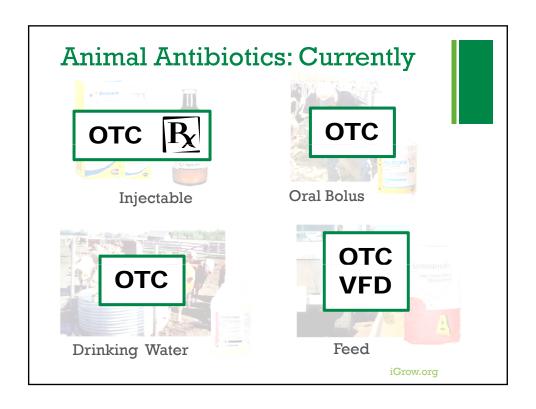


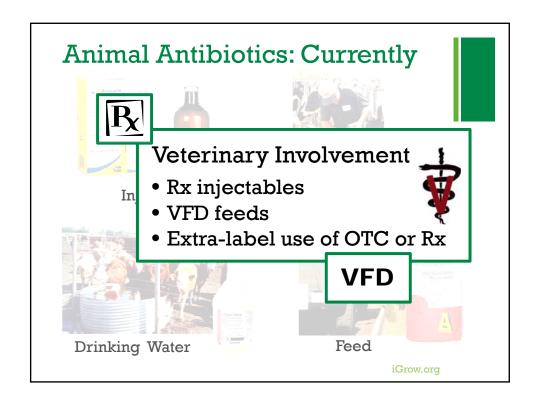
Russ Daly, DVM, MS, DACVPM

Extension Veterinarian State Public Health Veterinarian









# Veterinary Client Patient Relationship (VCPR)



- Veterinarian has assumed responsibility for medical judgments about the animals and the client has agreed to follow the vet's instructions.
- 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 timely visits.
- Veterinarian is available for follow-up in case of adverse reactions or treatment failure

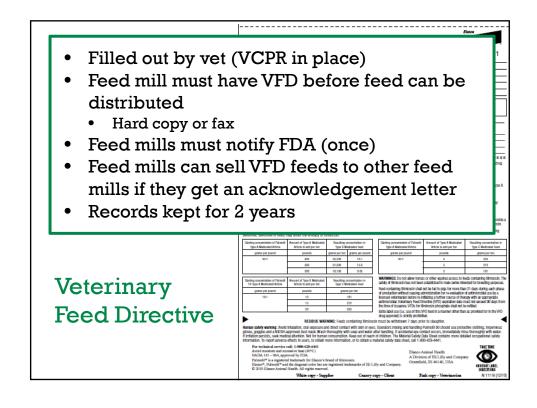
# Veterinary Involvement



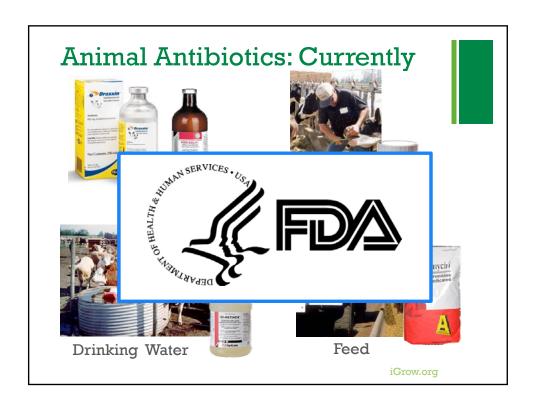
- VFD feeds
- Extra-label use of OTC or Rx



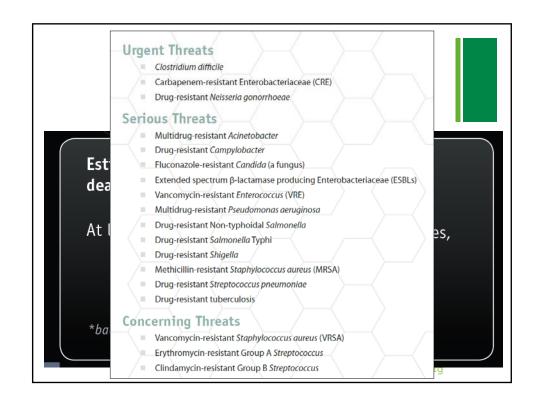
	Pulmotil® (til	lmicosin) Swin	e Veteri	nary Fee	Directive  Veterinarian: Address:  Phone #: Fax #:	,	Pulmetil. SW 000001
	Swine to be treate Mix Into Type C m	ed (number and local	,	VFD exp	Special Instructions:	Wear (not to exceed 90 day	9)
	total	bs. Type C feed at 18 bs. Type C feed at 23 bs. Type C feed at 36	2 g/ton 3 g/ton	Veterinari Date of tr Date writ	f final (Type C) feed: on's signature: eatment: on:	icense # and state:	
	CAUTION: Federal law limits shall be fed to animals only Active drug ingredient: Tile leart ingredients: Ground or	this drug to use under the by or upon lawful volorinary nicosin (as tilmicosin phosp process.	professional sa feed directive hate) 90.7 g po	pervision of a lice issued by a licens in ib. (200 g per kg		earing or containing this web the veterinarian's professions	rinary feed directive drug il practice.
	Resemption: Parliament is a thermodulation of the authorities therefore the produced and produced and expenditurally and is in the macendale class of all black or cells and 30 grant of 40 kept of this collect and 30 grant of 40 kept of this collect and 30 grant of 40 kept of						
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	grams per pound	pounds	grams per ton	grams per pound	grams per pound	pounds	grams per ton
	90.7	400	25,300	125	90.7	4	272
		200	18,100	9.05		2	181
77-4	Starting concentration of Palmot 15 June 3 Medicated Article	Amount of Type II Medicated Article to add per ton		oncentration in edicated Feed	WARMINGS: Do not allow hore safety of Eliminosin has not has	as or other aguines access to b in established in male swine into	eds containing tilmicosin. The
Veterinary	grams per pound	pounds		a per lan		not be fed to pigs for more the	
,	18.1	10		101	Roomsad vollorinarian before to	administration for re-evaluation inflating a further course of the Directive (VFD) excitation data r	rapy with an appropriate
T 15: (:		15	_	272	the time of Essance, VFDs for	limicesin phosphate shall not b	oraffied.
Feed Directive					Edm label use (i.e.: use of this drug approval) is strictly prohi		n as provided for in the VFD
	Heave safely wanting: Another industrial control of the Control of						
	For technical environ cells 1-100s (220-141)  For technical environ cells 1-100s (220-141)  For the Company of						
	<u> </u>	White copy - Sup	pber	Canary	opy - Client 1	ink copy - Veterinarian	Al 11116 (12/10)

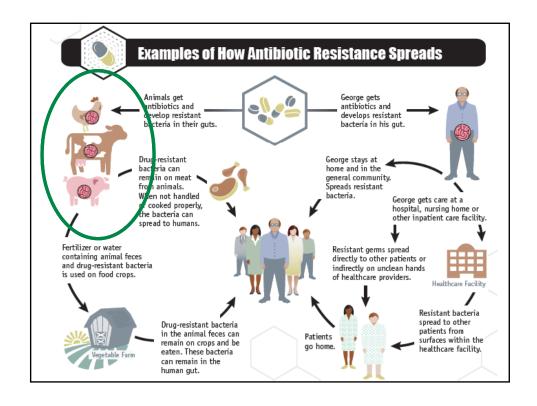


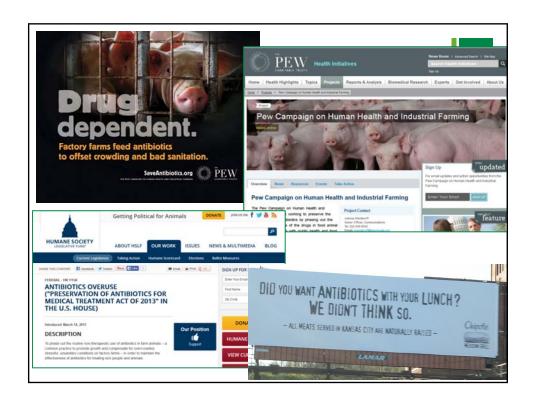
Pulmotil® (tilmicosin) Swine Veterin  Client: Address:	SW 000001					
Phone #: Fax #:	Phone #: Fax #:					
Swine to be treated (number and location):	Special instructions:					
Mix into Type C medicated feed to provide:  total lbs. Type C feed at 181 g/ton total lbs. Type C feed at 272 g/ton total lbs. Type C feed at 363 g/ton	VFD expiration date:  Month/Dav/Year (not to exceed 90 days)  Amount of final (Type C) feed:  Veterinarian's signature:  Date of treatment:  License # and state:					
Veterinary Feed Directive	Date Written:					
	Internation To report adverse and the thirt is used, to detail not information, or to detain a malerial casely data should, call 1-203-201-4441.  And of mointer and excessive host (40°C)  ANDA 14-1 - 20-6, Approved by 150.  And Detail or 1-20, Approved by 150.  A Detail or 1-20, Approved by 150.  A Detail or 1-20, Approved by 150.  A Detail or 1-20, Approved by 150.  Chemically a sequence indicated for Electro's treat of Ultrainosis.  Call of 150.  Chemically 1-20, Approved by 150.  Chemically 1-20, A					

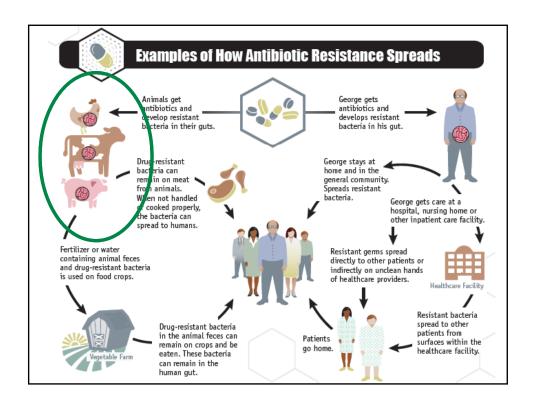














### FDA Guidance for Industry #209



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

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#### FDA Guidance for Industry #209



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# FDA Guidance for Industry #209: Medically Important Antibiotics

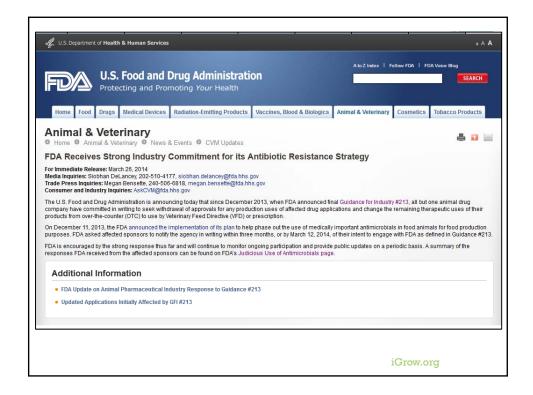
Class of antibiotic	Feed-Grade Examples
Aminoglycosides	Neomycin, Streptomycin
Lincosamides	Lincomix®
Macrolides	Pulmotil <sup>®</sup>
Penicillins	Penicillin, CSP
Streptogramins	Stafac®
Sulfonamides	Sulfamethazine, Aureomix®
Tetracyclines	Aureomycin®, CTC

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## FDA Guidance for Industry #213



- ■Final as of December 2013
- ■For the drug companies
- ■For "medically important antibiotics"
- Asks companies to voluntarily revise their product labels to remove growth promotion and feed efficiency
- Provides for moving OTC products to Rx or VFD status



## So... What will change?

- Growth promotion uses in feed no longer allowed
  - 1. Tetracyclines: CTC, Aureomycin, NeoTerra
  - 2. Stafac (virginiamycin)
- Use of "medically important" feed antibiotics will need a VFD
  - Can only use for treatment, control, prevention
  - 1. Tetracyclines (CTC, Aureomycin, NeoTerra)
  - 2. Tylan
  - 3. Sulfamethazine (Aureomix)
  - 4. Stafac for liver abscesses
  - 5. Medicated milk replacers (w/ oxytetracylcine, neomycin...)



### So... What will change?

- ■Changes to the VFD process
  - Still under comment period
  - No longer need to estimate amount of feed consumed
    - Inclusion rate, animals to feed, duration
  - Expiration dates up to 6 months (maybe longer)
  - Electronic delivery
  - Reduce bookkeeping requirement to 1 year



#### So... What will Change?

- Who defines a valid Veterinary Client Patient Relationship
  - Will be left to each state's regulations or veterinary board
  - Veterinarian must be licensed in state where the animals are
- "Medically important" water medications will move to prescription status





### What Won't Change



- ■Use of non-"medically important" drugs:
  - Ionophores (Bovatec, Rumensin, etc.)
  - Coccidiosis treatments (Corid, Deccox, etc.)
  - Bacitracin (BMD)
- Ability to use the same products currently used for treatment, control, prevention
  - But will need a VFD now
- ■Injectable medication uses
- ■Extra-label uses of feed-grade medications
  - Is illegal now, will continue to be illegal

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#### What Won't Change



- Ability for current feed mill operators to supply feed medications
  - VFD documentation and records need to be kept
  - VFD drugs will not automatically need to be handled only by licensed feed mills
- Need for veterinarians to be involved in medication decisions





