

Antibiotic use, among other thing	gs, makes c	onsumers und	comfortable.
1-10 scale; percent responding "uncomfortable" (1-3)	Total	Food communicators	"I'm not aware of this method"
Supplementing naturally occurring animal hormones	55%	72%	2%
Using dihydrogen monoxidization ( $\rm H_2O$ ) on crops & farm animals	52%	53%	14%
Using pesticides on crops	49%	59%	1%
Administering animal antibiotics	48%	61%	1%
Using genetically modified (GMOs) or biotech seeds	43%	51%	2%
Using fertilizers on crops	26%	31%	_

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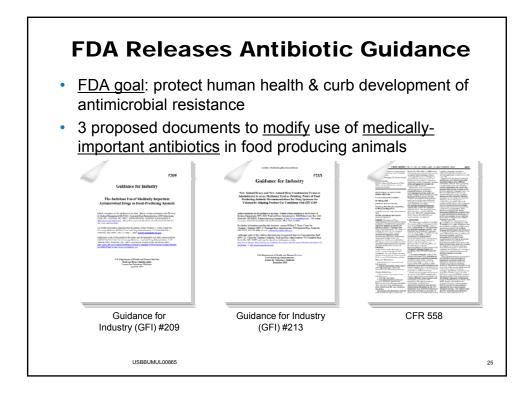


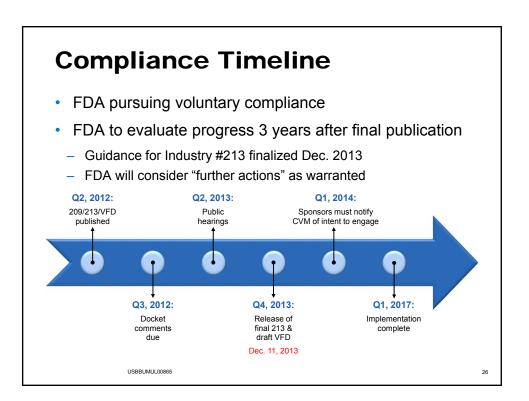
YOU SAY	THEY HEAR
We use antibiotics to be more efficient.	Because you only care about making money
We use antibiotics to keep animals healthy.	You HAVE to use antibiotics because animals are kept in poor conditions.
Regulatory agency reviews have approved antibiotics as safe after rigorous review processes.	We don't know if it's safe for the long term. They've been wrong before
There are rules that dictate maximum residue levels allowed in animals.	How can we be sure ANY residue is safe?
There is no evidence that use of antibiotics in animals causes resistance in humans.	Yeah right. We're using so many, that has to be part of the reason.

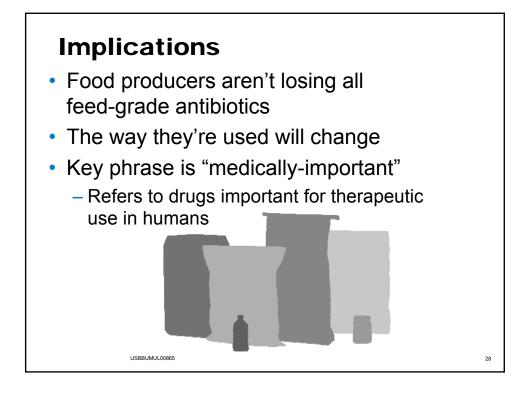


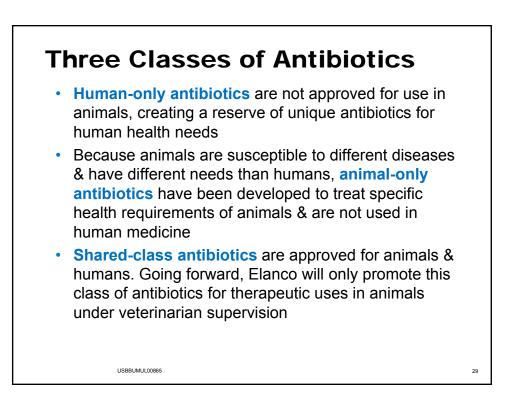


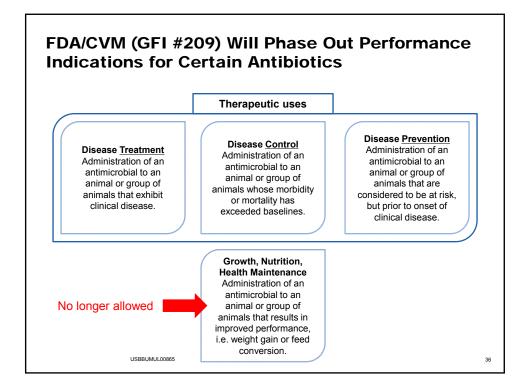




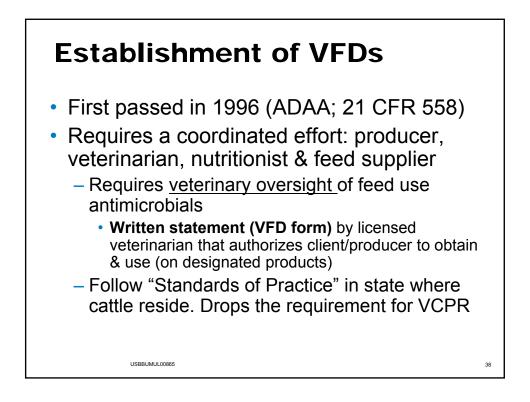


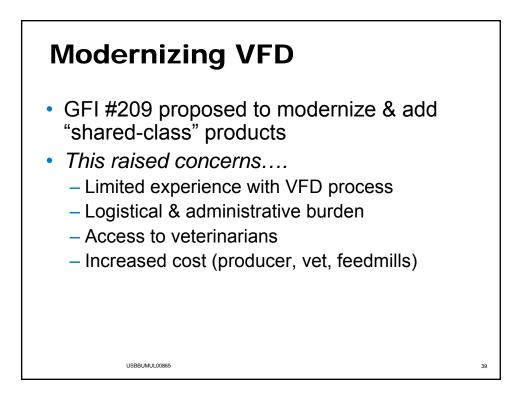






What Will Change?		
Antibiotic classes	Animal-only	Shared-use
Performance	lonophore — ADG/FE Bambermycin — ADG	CTC — ADG/FE
Prevention	Ionophore — Coccidosis	Oxytetracycline — SFC
Control	Ionophore — Coccidosis Carbodox — dysentery	Tylan — Liver abscess CTC — Pneumonia CTC — Liver abscess CTC — Anaplasmosis
Treatment	Tiamulin — dysentery	CTC — Enteritis
	II	<ul> <li>No longer allowed</li> <li>VFD required</li> </ul>
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## Veterinarian Use & Oversight

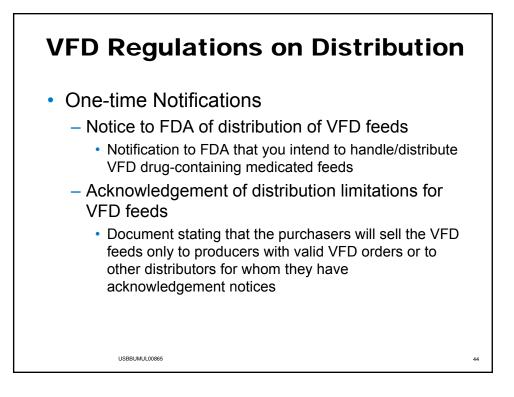
• Each product approved under the VFD regulations includes the following caution:

**CAUTION:** Federal law limits this drug to use under the professional supervision of a licensed veterinarian. Animal feed bearing or containing this veterinary feed directive drug shall be fed to animals only by or upon a lawful veterinary feed directive issued by a licensed veterinarian in the course of the veterinarian's professional practice.

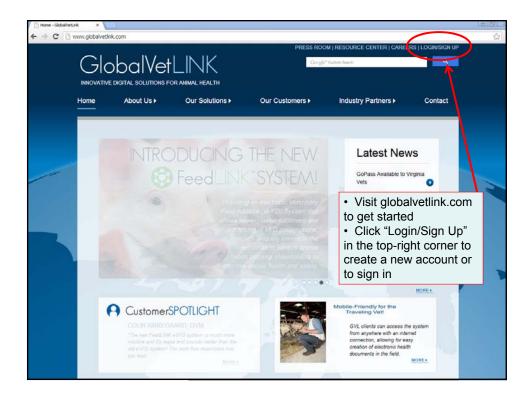
**Caution:** Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

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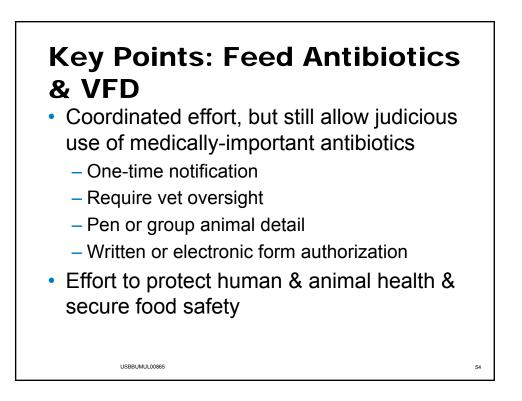
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Addisor	terinary Feed Directive	Veterinarian:	Elanco Pulmotil 083251
Phone #:		Phone #: Fax #:	
Mix into Type C Medicated Feed to total lbs Type Type C complete feed range of 568 to 757 g/ton (	C Complete feed at g/ton	VFD Expiration Date:	Month/Day/Year (not to exceed 45 days)
Type C complete feed range of 568 to 757 g/ton (	stration period C Complete feed atg/ton 00% Dry Matter Basis)	Veterinarian's signature: Date: Licer	reed
you are required to provide the infor Drug (Ingredient)	Drug Level or Any Special Instruct	ation in the following table.	Initial





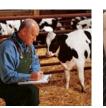


## Investing in Innovation



Pursue advances & treatments that lessen reliance on antibiotics

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Seek new therapeutic indications for treatment, control & prevention of diseases



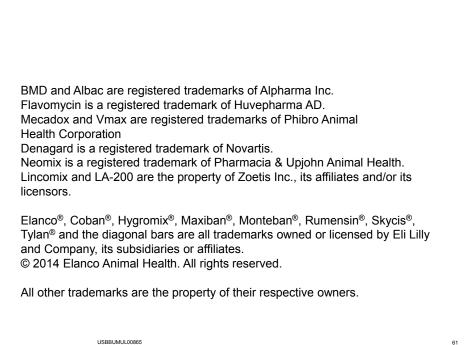
Support use of antimicrobials used only in animals for growth & performance (where permitted)



Provide services that help verify & validate responsible product use

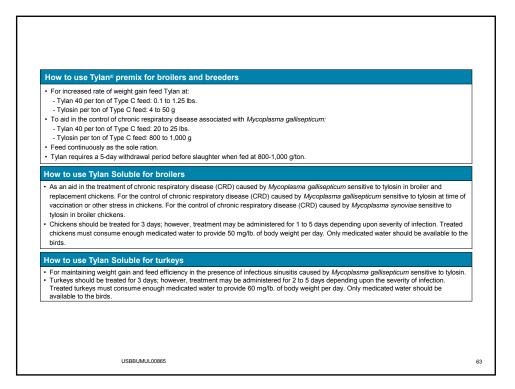
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How to use Tylan <sup>®*</sup> premix for swine For ileitis control:	Recommendation:
Feed Tylan at 100 g/ton for at least 3 weeks, followed by 40 g/ton to market weight.	Recommendation: Begin feeding Tylan at 12-15 weeks of age or 3 weeks prior to seroconversion, <sup>12</sup> because gross or microscopic lesions appear well in advance of seroconversion/disease.
Swine: For the treatment and control of swine dy upon severity of infection. Alternatively, medicate	sentery, medicate with 250 mg tylosin per gallon in drinking water for 3 to 10 days, depending with 250 mg tylosin per gallon in drinking water for 3 to 10 days, followed by 40 to 100 g tylosin
Swine: For the treatment and control of swine dy upon severity of infection. Alternatively, medicate per ton of complete feed (Type C medicated feed proliferative enteropathies (PPE, lieitis), medicate per ton of complete feed (Type C medicated feed	with 250 mg tylosin per gallon in drinking water for 3 to 10 days, followed by 40 to 100 g tylosin manufactured from TYLAN Type A medicated article) for 2 to 6 weeks. For control of porcine with 250 mg tylosin per gallon in drinking water for 3 to 10 days, followed by 40 to 100 g tylosin manufactured from TYLAN Type A medicated article) for 2 to 6 weeks. Swine must consume
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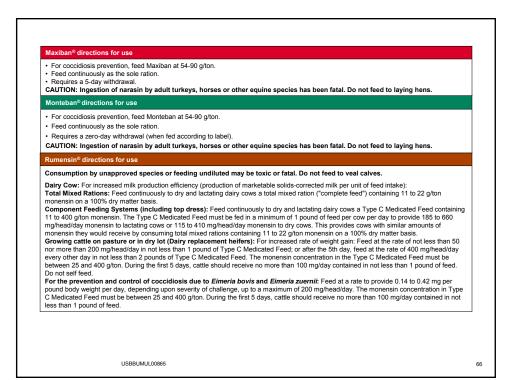


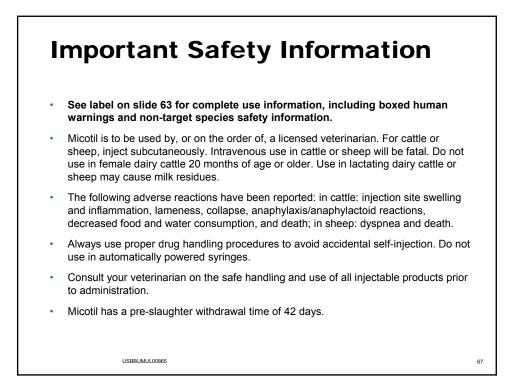
How to use Tylan® Premix for beef cattle	
For reduction of incidence of liver abscesses associated with <i>Fusobacterium necrophorum</i> and <i>Arcanobacterium pyogenes</i> - Feed tylosin continuously at 8-10 g/ton (90% DM) to deliver 60-90 mg/hd/d.	r.
Hygromix <sup>∞</sup> directions for use	
<ul> <li>For use as an aid in the control of parasite infections in chickens associated with Ascaris galli, Heterakis gallinae and Cap.</li> <li>Mix 1.0-1.5 lbs. Hygromix 8 per ton of Type C medicated feed for 8-12 g of hygromycin B per ton.</li> <li>Feeds containing Hygromix must be withdrawn 3 days prior to slaughter.</li> </ul>	illaria obsignata.
Recommendation <sup>1,2</sup>	
he labels contain complete use information, including cautions and warnings.	
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Feed to pullets and breeders at 12 g/ton from placement through 50 weeks. he labels contain complete use information, including cautions and warnings. Jways read, understand and follow the label and use directions. Eckman, M. 1998. "Controlling Helminth Parasites in Layer, Broiler Breeder Flocks." Poultry Sci. June/July. Shumard, R., et al. "Hygromycin B: An Anthelminitc for Effective Control of Nematode Parasites of Chickens." Symposium of Tylan and Hygromix.	
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<ul> <li>For coccidiosis prevention, feed Coban at 90-110 g/ton.</li> <li>Feed continuously as the sole ration.</li> <li>Requires a zero-day withdrawal (when fed according to the label).</li> <li>CAUTION: Ingestion of monensin by horses and guinea fowl has be</li> </ul>	een fatal.
Coban® for turkeys	
<ul> <li>For coccidiosis prevention, feed Coban at 54-90 g/ton.</li> <li>Feed continuously as the sole ration.</li> <li>Requires a zero-day withdrawal (when fed according to the label).</li> <li>CAUTION: Ingestion of monensin by horses and guinea fowl has be</li> </ul>	en fatal.
Skycis® indications	Appropriate concentrations of narasin in Type C Medicated Feed
Increased rate of weight gain in growing-finishing swine when fed for at least 4 weeks.	13.6 to 27.2 g/ton (15 ppm to 30 ppm)
Increased rate of weight gain and improved feed efficiency in growing- finishing swine when fed for at least 4 weeks.	18.1 to 27.2 g/ton (20 ppm to 30 ppm)
No increased benefit in rate of weight gain has been shown when narasi	in concentrations in the diet are greater than 13.6 g/ton (15 ppm).
No withdrawal period is required when used according to the label.	
Cautions: - Swine being fed with Skycis (narasin) should not have access to feeds or occur. If signs of toxicity occur, discontinue use. - Do not allow adult turkeys, horses or other equines access to narasin fo approved for use in breeding animals because safety and effectiveness	prmulations. Ingestion of narasin by these species has been fatal. Not

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## **Boxed Warning**

CAUTION: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

Human Warnings: Not for human use. Injection of this drug in humans has been associated with fatalities. Keep out of reach of children. Do not use in automatically powered syringes. Exercise extreme caution to avoid accidental self-injection. In case of human injection, consult a physician immediately and apply ice or cold pack to injection site while avoiding direct contact with the skin. Emergency medical telephone numbers are 1-800-722-0987 or 1-800-428-4441. Avoid contact with eyes.

Note To The Physician: The cardiovascular system is the target of toxicity and should be monitored closely. Cardiovascular toxicity may be due to calcium channel blockade. In dogs, administration of intravenous calcium offset Micotil-induced tachycardia and negative inotropy (decreased contractility). Dobutamine partially offset the negative inotropic effects induced by Micotil in dogs. ß-adrenergic antagonists, such as propranolol, exacerbated the negative inotropy of Micotil in dogs. Epinephrine potentiated lethality of Micotil in pigs. This antibiotic persists in tissues for several days.

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