UNAPPROVED DRUGS



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Preferred Real-World Scenario

Drug Approvals
Novel Approaches
Diminished Shortages





Drug Approvals

- Continued availability is critical
- Many species and conditions
- Reliance on federal and state rules
 - Prescription drugs
 - FDA extralabel drug use rules



Drug Approvals

Relevant AVMA policy

 Funding of the New Animal Drug Application Approval Process



Drug Shortages - Effects

Human and veterinary drugs affected

 Compounding from bulk – reported impact on return of approved drug to market



Addressing Drug Shortages

Frequent status updates needed

Reduce number of shortages

o(Ideal) No shortages



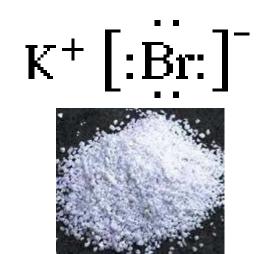
Medically legitimate unapproved drugs

- •Including but not limited to...
 - Injectable vitamins
 - Electrolytes
 - Fluids
 - Topical treatments



Potassium Bromide

- Anticonvulsant
- Indications:
 - Refractory epilepsy
 - Refractory seizures
 - May be used alone or in combination with other Rx





Potassium Bromide

- No FDA approved formulation
- Unapproved form
- Only other option:
 - compounded formulas



Epinephrine

- Hormone, neurotransmitter
- Indications:
 - Cardiopulmonary resuscitation
 - Anaphylactic reactions





Epinephrine

- No currently approved veterinary product
- Only FDA-approved products: single dose autoinjectors dispensing 0.3 mg
- 34 autoinjectors required to give a single treatment to an average size horse



Continued Availability

- Drugs that should have continued availability have:
 - Minimum to zero food residue risk or
 - Manufacturing under GMPs or relevant international standards

and/or

Other federal standards (such as EPA)



Active Enforcement Needed

- Large-scale manufacturing of mimics
- Circumvention of NADA process
- Questionable safety and efficacy
- Diverts resources away from FDAapproved drugs

Applicable to both unapproved drugs and unapproved drugs marketed as devices



Other ideas

- Labeling of drugs
 - Approved
 - Legally marketed
 - Unapproved
- Readily identifiable
- •Indexed drugs
 - "Not approved by FDA" could be misconstrued





Summary

- •Important topic
- Sometimes medically necessary
- oldeally:
 - Increased approvals
 - Decreased shortages
 - Adequate enforcement
 - Access to needed unapproved drugs
- Further dialog needed







