

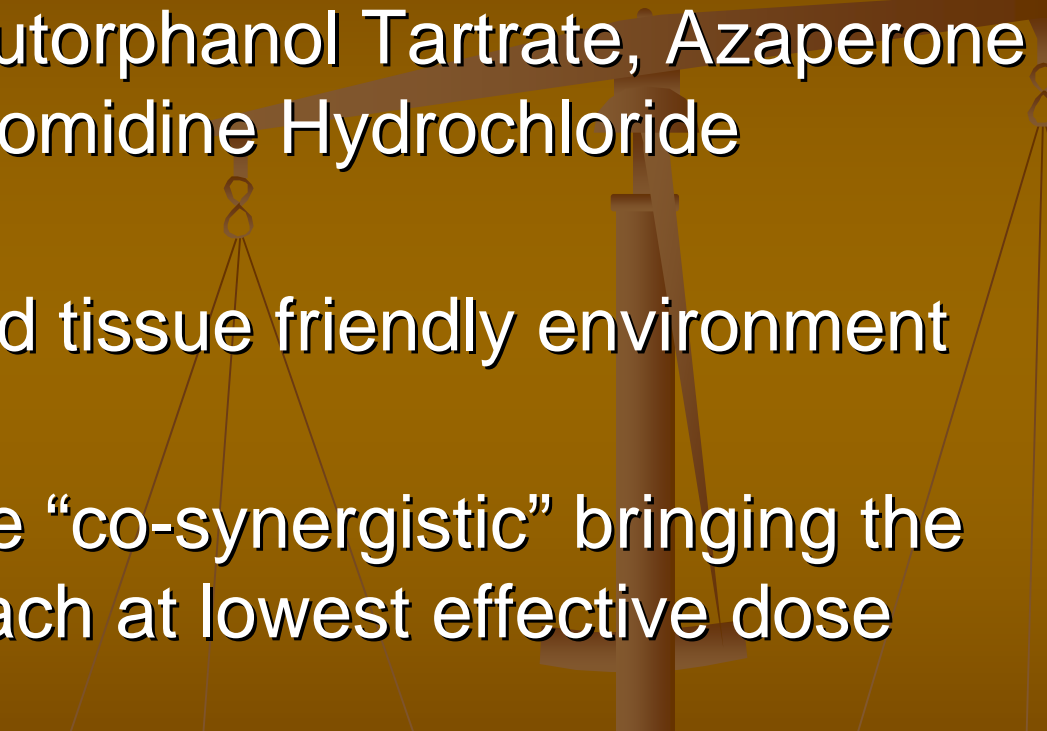
A faint, stylized illustration of a balance scale is visible in the background. The scale is tilted, with the right pan being lower than the left pan. The text is overlaid on the left side of the scale.

BAM!

The New Tool for Deer

The What, Why and How
do I get it

What is it?

- A combination of Butorphanol Tartrate, Azaperone Tartrate and Medetomidine Hydrochloride
 - All three in a pH and tissue friendly environment
 - All three seem to be “co-synergistic” bringing the best attributes of each at lowest effective dose rate
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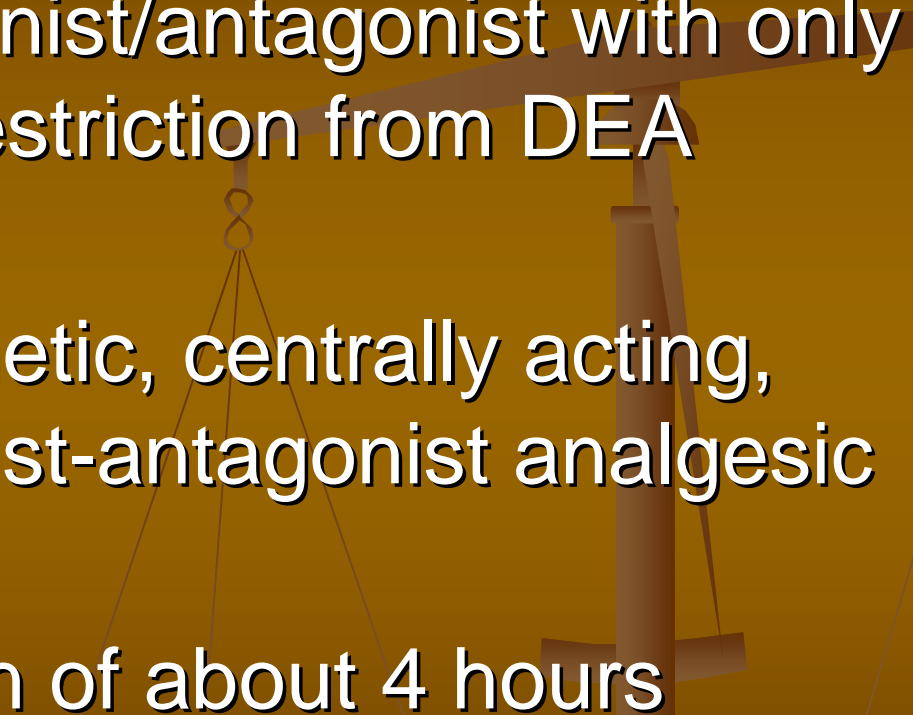
Why?



To fill the need for:

- Reversible
- Safe
- Low DEA class
- Small volume
- Broad species application
- Simple dosing schedule

Butorphanol (IV)

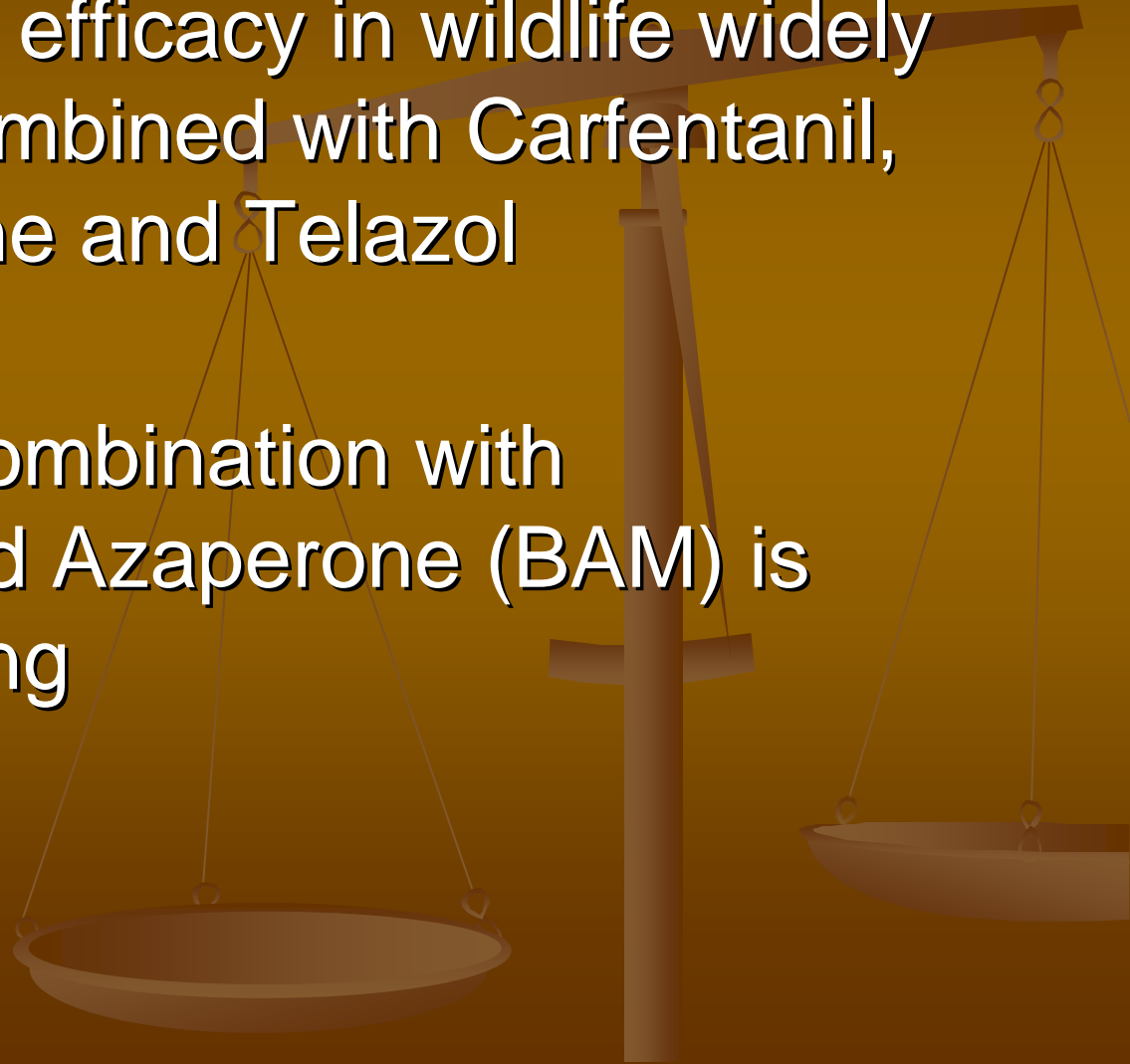
- An opiate agonist/antagonist with only a class four restriction from DEA
 - A totally synthetic, centrally acting, narcotic agonist-antagonist analgesic
 - Has a duration of about 4 hours
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Azaperone

- A member of the Butyrophenone group
- Most commonly used in Africa with Etorphine (M99) and A3080 and alone as a transport aid in hoof stock
- Use and knowledge in U.S. limited due to limited availability until now
- Previously approved in the U.S. as Stresnil, a sedative for swine. No longer available except through pharmacies

Medetomidine

- Uses, dose and efficacy in wildlife widely known when combined with Carfentanil, A3080, Ketamine and Telazol
- Application in combination with Butorphanol and Azaperone (BAM) is rapidly expanding



Characteristics of a BAM Procedure



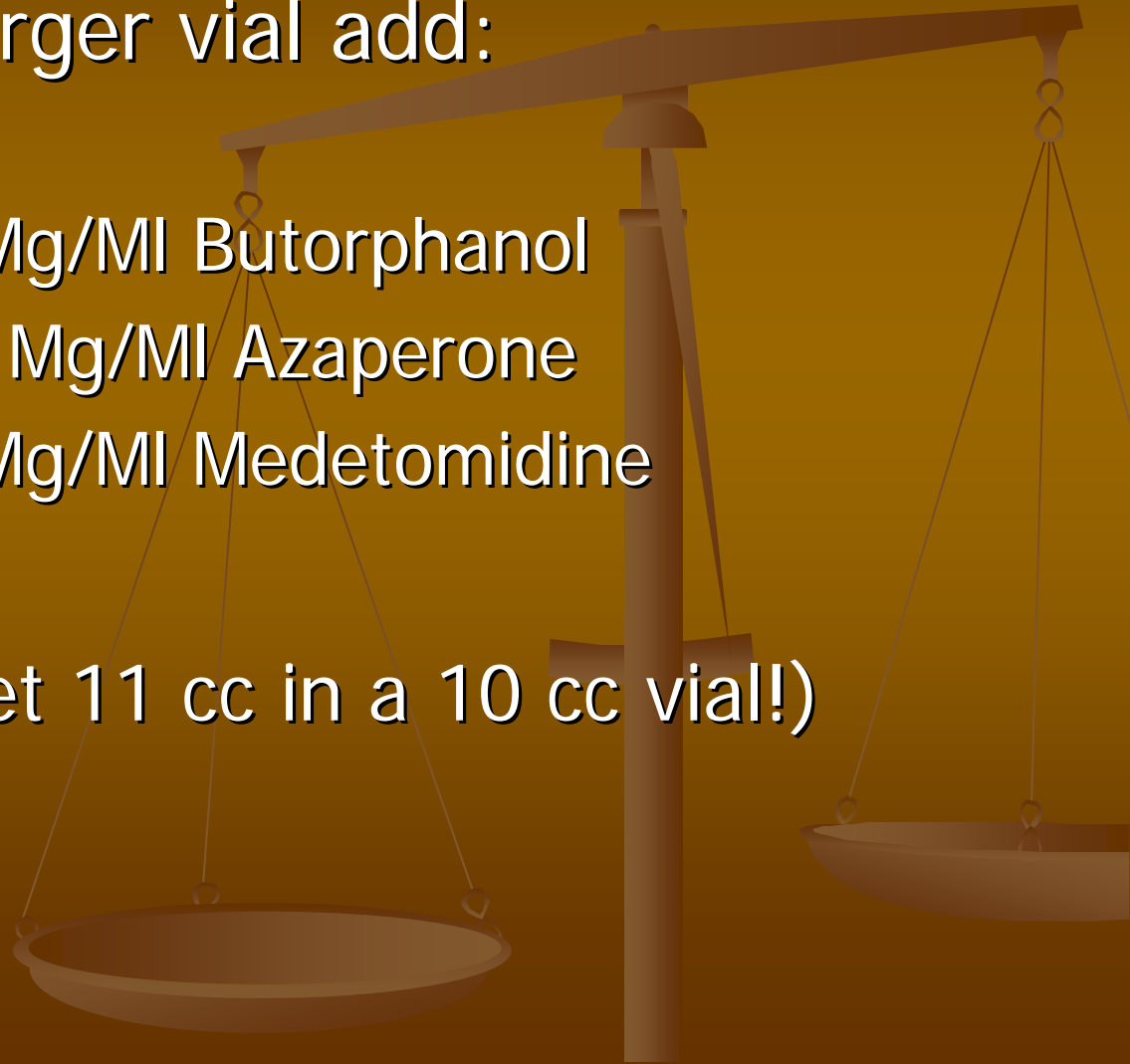
- Smooth inductions
- Induction times equal to or shorter than Telazol/Med or Telazol/Xylazine
- Relaxed respiration (no “frozen chest”)
- Limited or no increase in body temperature
- Good blood oxygen levels
- Great analgesia and muscle relaxation
- Rapid, smooth and socially acceptable recovery

BAM STOCK SOLUTION MIX

In a 10 cc or larger vial add:

- 6 cc of 50 Mg/MI Butorphanol
- 2 cc of 100 Mg/MI Azaperone
- 3 cc of 40 Mg/MI Medetomidine

(Yes, you can get 11 cc in a 10 cc vial!)

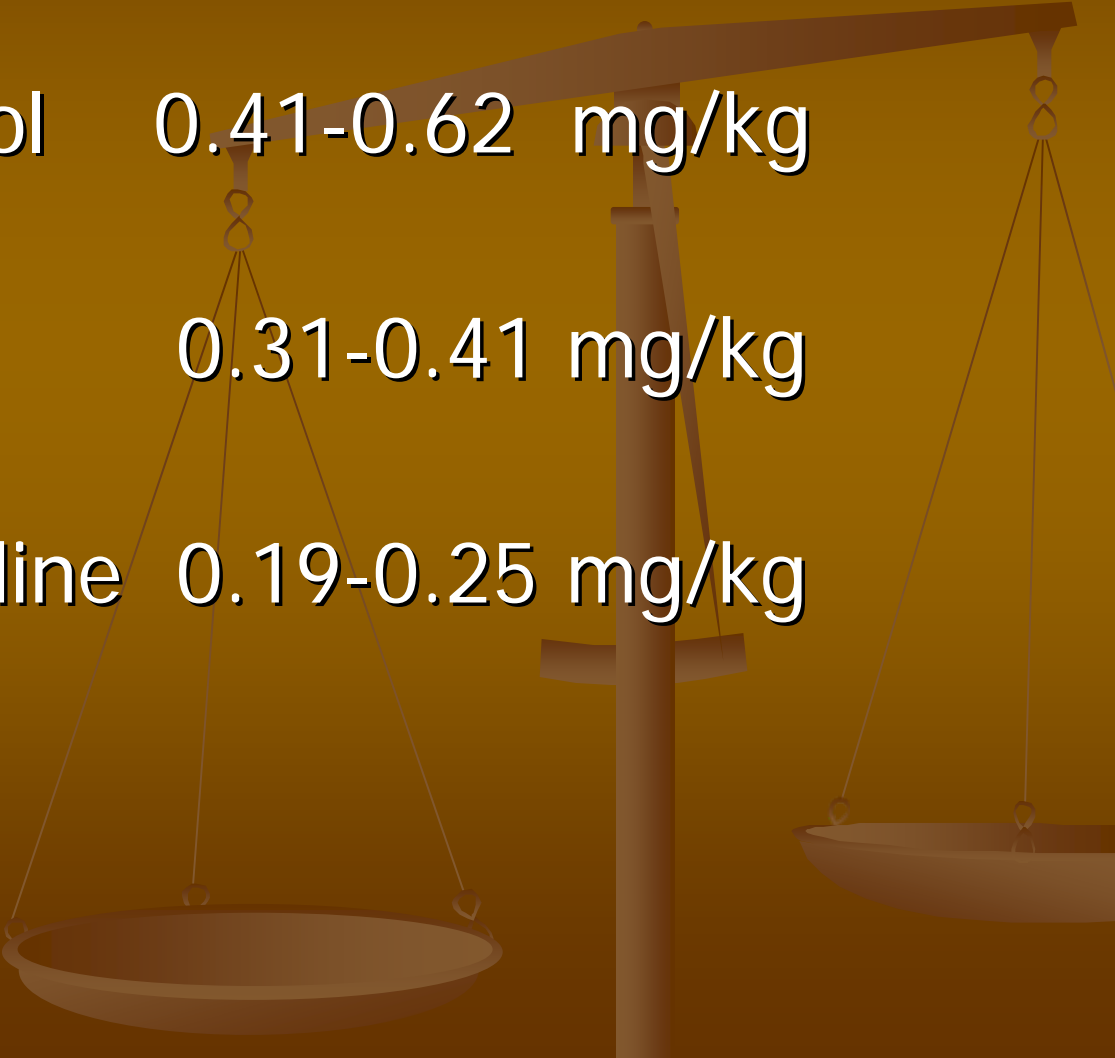


Dose Schedule in Deer

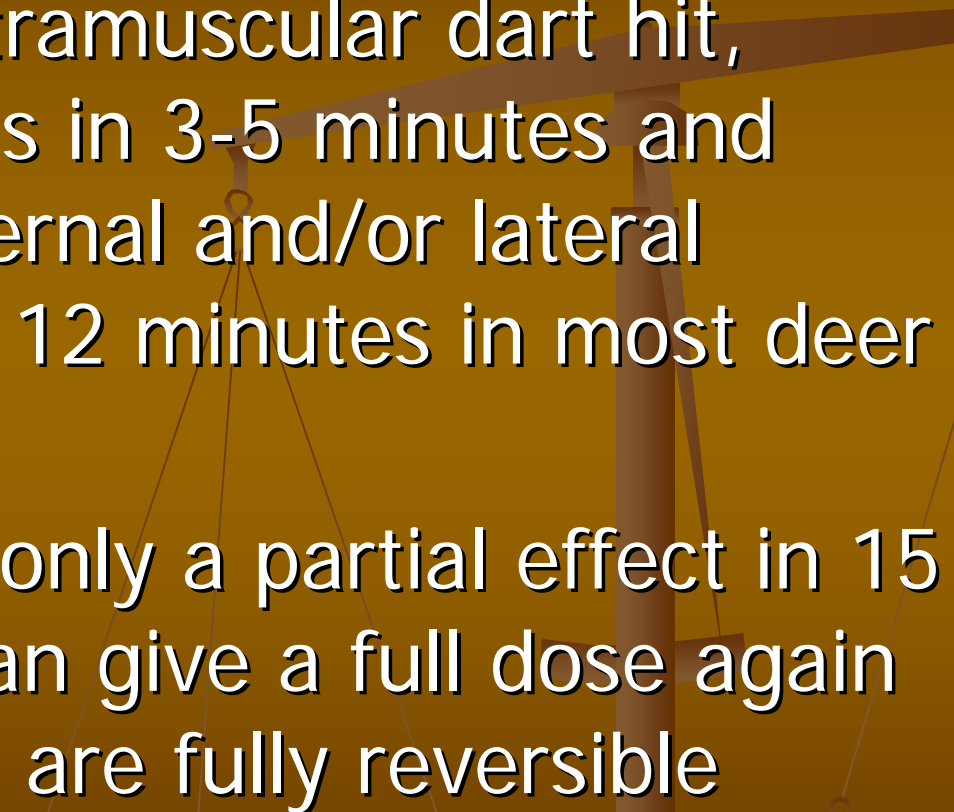


- Once BAM stock solution is mixed, dose accordingly for deer:
 - Fawn 0.3-0.5 cc
 - Adult Doe and Small Bucks 1cc-1.5 cc
 - Large Buck 2 cc

Dose Rate in Deer

- Butorphanol 0.41-0.62 mg/kg
 - Azaperone 0.31-0.41 mg/kg
 - Medetomidine 0.19-0.25 mg/kg
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What about induction?

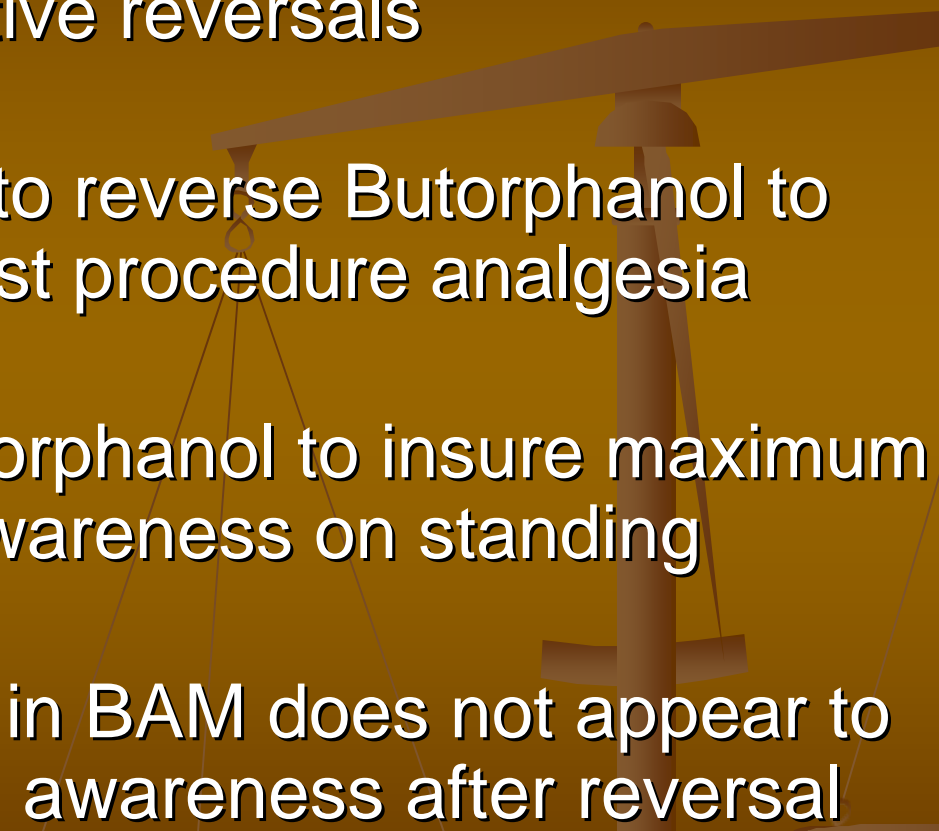
- With a good intramuscular dart hit, induction begins in 3-5 minutes and continues to sternal and/or lateral position in 8 to 12 minutes in most deer
 - If no effect, or only a partial effect in 15 minutes, you can give a full dose again since the drugs are fully reversible
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- A faint, semi-transparent image of a balance scale is visible in the background of the slide. The scale is positioned on the right side, with its vertical pillar and horizontal beam extending across the right half of the frame. Two pans are suspended from the beam, one on each side. The scale is slightly tilted, with the right pan appearing lower than the left. The background is a solid, dark brown color.

Reversal



- Butorphanol either not reversed or reversed with 50 to 100 mg (0.5-1.0 ml) Naltrexone IM
- Medetomidine reversed with Atipamezole 3cc in fawns, does and small bucks, 5 cc in large bucks IM
- Also give Tolazoline at 200-300 mg (1-1.5 ml) IM
- Azaperone not reversed and provides low level of sedation for 2-4 hours

Reversal

- Provides alternative reversals
 - May choose not to reverse Butorphanol to provide some post procedure analgesia
 - May reverse Butorphanol to insure maximum environmental awareness on standing
 - Azaperone dose in BAM does not appear to impair situational awareness after reversal
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Species to date



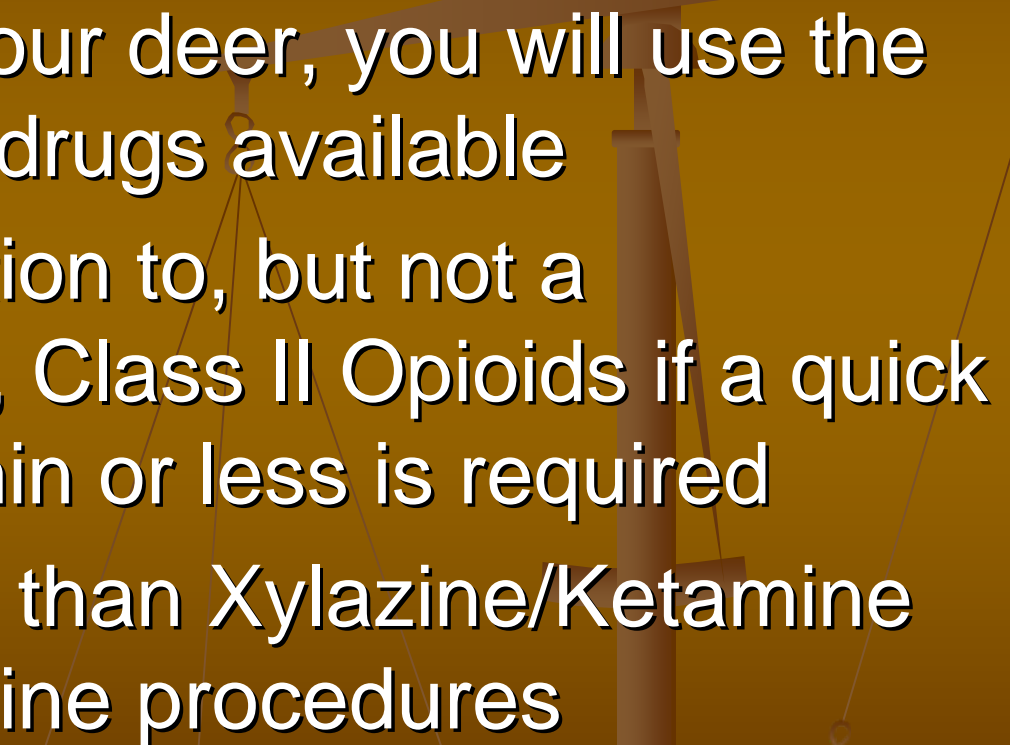
- White-tailed and Mule Deer-all age and size classes
- Elk
- Moose
- Bison
- Bighorn Sheep
- Pronghorn
- Waterbuck
- Black Bear

Problems?

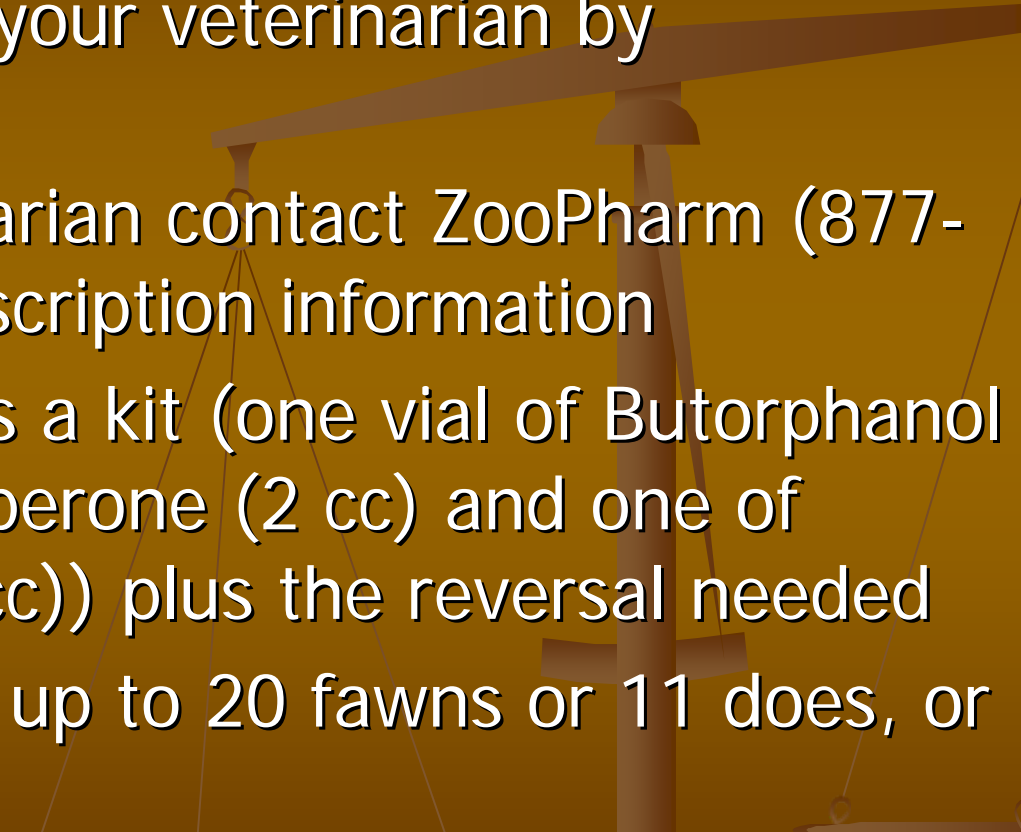


- Not effective in fallow deer
- Not recommended for semen collection at this time. Awaiting further data.

\$ You get what you pay for \$

- If you care for your deer, you will use the best and safest drugs available
 - Alternative solution to, but not a replacement for, Class II Opioids if a quick knockdown: 3 min or less is required
 - More expensive than Xylazine/Ketamine or Telazol/Xylazine procedures
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How do I get it?

- Available through your veterinarian by prescription only
 - Have your veterinarian contact ZooPharm (877-883-9283) for prescription information
 - BAM is provided as a kit (one vial of Butorphanol (6 cc), one of Azaperone (2 cc) and one of Medetomidine (3 cc)) plus the reversal needed
 - This is enough for up to 20 fawns or 11 does, or five large bucks
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Who to call for more information:

- For order placement and questions contact Christy Lamb toll-free 1-877-883-9283 or by email: sales@wildpharm.com
- For technical information contact Dr. William Lance toll-free 1-877-883-9283
- For field use information contact Mr. Warren Bluntzer: (512) 556-7027