Yobine® Injection
(yohimbine sterile solution)
2.0 mg/mL

Alpha-2 adrenergic receptor antagonist.
For use as indicated in canine AnaSed®
(xylazine sterile solution) Injection reversal.

- FDA-approved agent for rapid, total xylazine reversal
- Reverses sedative effect in one to three minutes after I.V. administration
- Counteracts cardiac effects of arrhythmia and bradycardia
- Stimulates respiratory rates and speeds return of reflexes
- Manufactured in the U.S.A.

For comprehensive AnaSed® reversal, Yobine® delivers within three minutes of I.V. administration. Akorn Animal Health’s yohimbine brand is effective in the stimulation of respiratory rate and reflex response in addition to counteracting adverse cardiac effects.

Yobine® provides consistently reliable performance with the cost-efficiency you demand from your routine-use medications—all with the quality you expect from Akorn Animal Health.

NADA #140-866, Approved by FDA
Caution: Federal law restricts this drug to use by or on the order of a licensed veterinarian.
Yobine® Injection
(Yohimbine Sterile Solution)
2.0 mg/mL
Xylazine Reversing Agent and Antidote
For use in Dogs Only

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

Description: Yobine® contains yohimbine with the chemical name 17 alpha-hydroxy-20 alpha-yohimb-16 beta-carboxylic acid methyl ester. Yohimbine hydrochloride has a molecular weight of 390.89, and the molecular formula is C_{21}H_{26}N_2O_3•HCl.

The structural formula is:

Each mL contains: Yohimbine (as the hydrochloride) 2.0 mg, methylparaben 0.9 mg, propylparaben 0.1 mg, citric acid 3.34 mg, and water for injection, pH adjusted with sodium hydroxide.

PHARMACOLOGY: Yohimbine is an indo-lealkylamine alkaloid that acts primarily by blocking central alpha-2 adrenoreceptors that are stimulated by xylazine. Yohimbine is an alpha-2 adrenergic receptor antagonist that easily penetrates the blood-brain barrier. It competitively blocks and antagonizes central nervous system depression or sedation and the bradycardia and respiratory depression caused by xylazine. Xylazine, an alpha-2 adrenergic agonist with potent sedative, analgesic and muscle relaxant properties, has been used extensively as an analgesic-sedative restraining agent. It has also been used as a preanesthetic agent for many general anesthetics. The central nervous system depressant effect, as well as other pharmacologic effects, is dose dependent.

Yohimbine is useful to counteract the sedation after standard doses of xylazine. The competitive selective blocking of the alpha-2 adrenergic receptor by yohimbine displaces xylazine from these sites and thereby rapidly cancels the effect of the xylazine.

Yohimbine, when used at the prescribed dose, will effectively reverse the effects of xylazine when it is used alone in dogs. Yohimbine abbreviates the anesthesia and chemical restraint of the xylazine.

The reversal of the sedative effects of xylazine by I.V. injection of yohimbine is rapid, usually occurring within one to three minutes, regardless of the route of administration of xylazine.

INDICATIONS: Yohimbine should be used in dogs when it is desirable to reverse the effects of xylazine. Yohimbine has been used successfully to reverse the sedative effects of xylazine and to reverse the cardiac effects of xylazine such as arrhythmia and bradycardia when xylazine is administered alone.

DOSEAGE AND ADMINISTRATION: For intravenous injection. The usual dose is 0.5 mL/20 lb body weight (0.05 mg/lb, or 0.11 mg/kg) to reverse the sedative effects of xylazine. The carefully calculated dose of yohimbine should be given intravenously slowly.

SIDE EFFECTS: Occasionally a dog that has been reversed will show signs of apprehensiveness but this state quickly subsides.

PRECAUTIONS: The safety of yohimbine in pregnant dogs or in dogs intended for breeding has not been established. Careful consideration should be given before administering to dogs known to be epileptic or seizure prone. The drug reverses the analgesic effects of xylazine as well as the sedative effects. If the animal was given xylazine for its analgesic properties, reversal may result in return of normal pain perception.

SAFETY: Yobine® was tolerated in dogs at 3 times (0.15 mg/lb) and 5 times (0.25 mg/lb) the recommended dose administered without xylazine at 3 intervals of 6 hours. Dose at the 5x magnitude occasionally produced brief seizures and muscle tremors but no lasting untoward effects were observed.

WARNING: Not for human use. This drug should not be administered to food-producing animals.

STORAGE: Protect from heat and light. Do not store over 30°C (86°F).

HOW SUPPLIED: 20 mL multiple-dose vial.

NDC 59399-115-20

REFERENCES:

Manufactured by: Akorn, Inc.
Lake Forest, IL 60045
Y00N Rev. 07/14

NOT FOR PRESCRIBING PURPOSES. PLEASE REFER TO PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION.