

## Yohimbine:

**SCHEDULING STATUS:** S5

### CURRENTLY COMPOUNDED FORMULATIONS:

Active ingredient(s)	Injectable	Oral equine paste	Oral carnivore paste	Orals for exotics	Oral solution/suspension	Topical treatment	Shampoo	Capsules/Tablets	Oral powder
Yohimbine hydrochloride	✓								

**REGISTERED PRODUCT/ TRADE NAME:** None in South Africa

**PHARMACOLOGICAL CLASSIFICATION:** Alpha<sub>2</sub>-adrenergic antagonist

**PHARMACOLOGICAL ACTION:** Yohimbine antagonises the effects of xylazine. Alone, yohimbine increases heart rate, blood pressure, causes CNS stimulation and antidiuresis and has hyperinsulinemic effects. By blocking central alpha<sub>2</sub>-receptors, yohimbine causes sympathetic outflow to be enhanced. Peripheral alpha<sub>2</sub>-receptors are also found in the cardiovascular system, genitourinary system, GI tract, platelets and adipose tissue.<sup>[1]</sup>

**INDICATION:** Reversal of xylazine and amitraz toxicity<sup>[1]</sup>

### DOSAGE AND DIRECTIONS FOR USE:

#### DOGS:

For xylazine reversal: 0.11 mg/kg IV slowly

For amitraz toxicity: 0.1 mg/kg IV<sup>[1]</sup>

#### RABBITS/ RODENTS/ SMALL MAMMALS:

For xylazine reversal: Rabbits: 0.2 mg/kg IV as needed

Mice/ rats: 0.2 mg/kg IP as needed<sup>[1]</sup>

#### BIRDS:

For xylazine reversal: 0.1 mg/kg IV<sup>[1]</sup>

#### HORSES:

For xylazine reversal: 0.075 mg/kg IV<sup>[1]</sup>

#### WILDLIFE:

Eland (Common): 1 ml/50 kg of a 6.25 mg/ml injection. In sensitive species can go to 1 ml/20 kg

Gemsbok: 1 ml/50 kg of a 6.25 mg/ml injection.

Red hartebeest: 1 ml/50 kg of a 6.25 mg/ml injection.

Lichtenstein's hartebeest: 1 ml/50 kg of a 6.25 mg/ml injection.

Nyala: 1 ml/50 kg of a 6.25 mg/ml injection.

Mountain nyala bull: 36 mg

Mountain nyala cow: 24 mg

Wildebeest (Blue): 1 ml/50 kg of a 6.25 mg/ml injection.

Zebra: 1 ml/50 kg of a 6.25 mg/ml injection.

Mini-antelope: 1 ml/50 kg of a 6.25 mg/ml injection.

Grey duiker: 1 ml/50 kg of a 6.25 mg/ml injection.

Klipspringer: 1 ml/50 kg of a 6.25 mg/ml injection.  
Oribi: 1 ml/50 kg of a 6.25 mg/ml injection.  
Steenbok: 1 ml/50 kg of a 6.25 mg/ml injection.  
Hippopotamus: 1 ml/50 kg IV of a 6.25 mg/ml injection.  
Warthog and Bushpig: 1 ml/50 kg IV of a 6.25 mg/ml injection.  
Lion: 1 ml/50 kg IV of a 6.25 mg/ml injection.  
Leopard: 1 ml/50 kg IV of a 6.25 mg/ml injection.<sup>[2]</sup>

**WARNINGS/ PRECAUTIONS/ CONTRA-INDICATIONS:**

- Use cautiously in patients with seizure disorders. <sup>[1]</sup>
- When used to reverse the effects of xylazine, normal pain perception may result. <sup>[1]</sup>

**REFERENCES:**

1. Plumb's Veterinary Drug Handbook, Sixth Edition by Donald C. Plumb
2. Chemical and Physical Restraint of Wild Animals, Edited by Michael D. Kock, David Meltzer and Richard Burroughs