

Antidotes and Reversal Agents in Veterinary Anaesthesia

1. Alpha-2 Adrenergic Agonists

- Yohimbine: 0.1 mg/kg IV for xylazine
- Atipamezole: 50 µg/kg IM (dog), 100 µg/kg IM (cat) for medetomidine, detomidine

2. Opioids

- Naloxone: 0.01 mg/kg IV for morphine, fentanyl, butorphanol, etc.

3. Benzodiazepines

- Flumazenil: 0.01–0.02 mg/kg IV for diazepam, midazolam

4. Anticholinergics

- Physostigmine: 0.03–0.06 mg/kg slow IV for atropine overdose

5. Organophosphates

- Atropine + Pralidoxime (2-PAM)

6. Barbiturates

- No direct antidote, support with fluids, ventilation, alkalinize urine

7. Dissociatives

- No direct antidote. Use diazepam/acepromazine for excitement

8. Neuromuscular Blockers

- Neostigmine (0.04–0.08 mg/kg IV) + Atropine

- Succinylcholine: no antidote

9. Miscellaneous

- Ethylene glycol: Ethanol/Fomepizole

- Nitrate/Nitrite: Methylene Blue

- Cyanide: Sodium thiosulfate + Sodium nitrite

- Heavy metals: BAL, EDTA

- Paracetamol: N-acetylcysteine