SHEEP AND GOAT FORMULARY

Note that all of these doses are approximations and must be titrated to the animal's strain, age, sex and individual responses. Significant departures from these doses should be discussed with a veterinarian. Doses will also vary depending on what other drugs are being administered concurrently.

All doses are listed as milligrams per kilogram (mg/kg) unless otherwise noted.

| DRUG NAME | DOSE (mg/kg) & ROUTE | FREQUENCY | NOTES |
|--|---|---|--|
| Inhalation anesthe | etics | | |
| Recommended: Isoflurane or Halothane or Sevoflurane | 1-3% inhalant to effect (up to 5% for induction). Up to 8% for Sevoflurane | Whenever general anesthesia is required | Concurrent preemptive analgesia is recommended for survival surgery Must use precision vaporizer. |
| Ketamine combina | ations | | |
| Ketamine alone | 10 mg/kg IM | For surgery also use a local anesthetic at the surgery site | |
| Ketamine-Xylazine | 11 mg/kg IM + 0.22 mg/kg IM | | |
| Diazepam | 0.1-0.2 mg/kg IV | As needed | Particularly effective in sheep as a sedative and muscle relaxant |
| Reversal agents | | | |
| Atipamezole | ~ 1.0 subcutaneous or IV | Any time medetomidine or xylazine has been used | More specific for medetomidine than for xylazine (as a general rule, Atipamezole is dosed at the same <i>volume</i> as Medetomidine, though they are manufactured at different concentrations). |
| Other injectable a | nesthetics and tranquil | izers | |
| Pentobarbital | 20-30 mg/kg IV | | Quite rapidly metabolized by ruminants, light surgical anesthesia lasts only 15 to 20 minutes in adult animals |
| Telazol | 13 mg/kg IM, IV | | |
| Opioid analgesia | | | |
| Recommended: Buprenorphine | 0.005 - 0.01 mg/kg IM, SC | Every 4-6 hours | |
| Butorphanol | 0.5 mg/kg SC | Every 2-3 hours | Skin must be properly prepped and patch placed under a protective jacket |
| Butorphanol | 0.15 mg/kg | Every 6-8 hours | |
| Non-steroidal anti gastrointestinal, o | | a (NSAID) Note tha | t prolonged use my cause renal, |
| Carprofen | 1.5-2 mg/kg SC, IV | Every 24 hours | For sheep |
| Phenybutazone | 6 mg/kg IM, IV, PO | Every 6-12 hours | |
| Aspirin | 100 mg/kg PO | Every 12 hours | |
| Flunixin | 1.1-2.2 mg/kg IM, IV | Discuss frequency with veterinary | Consult with vet services regarding repeated administration |

| | | services | |
|-------------|--|---|-------------------------------------|
| | c/analgesics (lidocaine ar duration analgesia) | nd bupivicaine may b | e combined in one syringe for rapid |
| Bupivacaine | 1-2 mg/kg maximum dose, mixed with lidocaine at 1-4 mg/kg lidocaine | Use locally before making surgical incision | |
| Lidocaine | 1-4 mg/kg maximum dose, mixed with bupivacaine at 1-2 mg/kg bupivacaine | Use locally before making surgical incision | |