

| FEMA Cache List Drugs Canine Dosing - 2023 | | | | |
|--|--|---------------|-----------------|---|
| Description | K9 Typical Dose (Addn'l dose range) | Freq | Route | Notes |
| NARCOTICS / SEDATION / ANTICONVULSANT | | | | |
| Etomidate (+ midazolam) - induction | 0.5 - 3 mg/kg | | IV | Precede with 0.2mg/kg midazolam |
| Fentanyl | 3 mcg/kg IV bolus, then 3mcg/kg/hr CRI (2-5 mcg/kg) | | | |
| Ketamine + Midazolam - induction | 5 mg/kg Ket + 0.2 mg/kgMidaz | | IV | Be prepared to intubate, lube eyes, anesthetic monitoring. Mix in same syringe or give midazolam first. Pre-med with opioid for better quality. |
| Ketamine + Midazolam - sedation | 2.5 mg Ket + 0.1 mg/kg Midaz | | IV | Mix in same syringe or give midazolam first. Dysphoria. Add opioid for better quality. |
| Lorazepam - seizures | 0.2 mg/kg | | IV | |
| Lorazepam - anxiety | 0.025-0.1 mg/kg | q 8-24 hrs | PO | |
| Midazolam - seizures | 0.5 mg/kg | | IV, IM | Repeat 3x prn for seizures |
| Morphine | 0.2-0.5 mg/kg (0.2-1 mg/kg) | q 4hrs | IV slow, IM, SQ | Nausea common |
| Propofol - no pre-med | 6 mg/kg | | IV | Titrate to effect, 25% dose in 30 second increments |
| Propofol - with pre-med | 3 mg/kg | | IV | 0.2mg/kg Midazolam +/- opioid pre-med, admin same as above |
| Naloxone | 0.04 mg/kg (0.001-0.2+ mg/kg) | PRN | IV, IM, SQ, IN | Wide margin of safety in dogs (up to 10mg/kg). If IN only available, give full dose. |
| ER / CARDIORESPIRATORY - see separate CPR chart | | | | |
| Albuterol 0.5% | 0.5ml/4ml NaCl | q 6 hrs | nebulization | |
| Amiodarone | 2-5 mg/kg | IV 30-60 min | | |
| Atropine | 0.02-0.04 mg/kg | | IV, IM | |
| Atropine - organophosphate toxicity | 0.2-2 mg/kg | | * | * 1/4 dose IV, rest IM/SQ. Test at 0.02mg/kg IV first- if increased HR and mydriasis, unlikely OP toxicity |
| Diltiazem | 0.05-0.25 mg/kg (up to 0.5mg/kg) | | IV 5 min | SVT. Chronic treatment = 1 mg/kg PO q8hrs (max 3mg/kg q8) |
| Dobutamine | 5-20 mcg/kg/min | | | |
| Dopamine | 1-10 mcg/kg/min | | | |
| Epinephrine - anaphylaxis | 0.01 mg /kg | q 5-15 min | IM | |
| Epinephrine - low dose CPR | 0.01 mg/kg | q 3-5 min | IV | |
| Epinephrine - high dose (prolonged CPR) | 0.1 mg/kg | cpr > 10 min | IV | |
| Furosemide | | | | |
| Lidocaine - ventricular tachycardia | 2-4 mg/kg | up to 8 mg/kg | IV | Follow with CRI @ 25 - 80 mcg/kg/min |
| Metoprolol | 0.2-0.4 mg/kg | q 12 hrs | PO | |
| Procainamide | 2-4 mg/kg IV 2 minutes, repeat prn, then 10-40 mcg/kg/min cri. | | | V-tach. Lidocaine first. Max 25 mg/kg over 15 min. |
| Saline / Isotonic Crystalloid - shock dose IV fluids | 10 ml/kg | prn | IV | Total blood volume = 60 - 90 ml/kg |
| Tidal volume during CPR | 10 ml/kg | | | Or chest rise |
| ORAL / LOCAL ANALGESICS | | | | |
| Acetaminophen | 10-15 mg/kg | q 12 hrs | PO | Narrow safety margin |
| Oxycodone 5mg/Acetaminophen 325mg | Dose for acetaminophen @ 10-15 mg/kg q 12 hrs | | PO | Oxycodone dosed at 0.1 - 0.3 mg/kg PO q 8 - 12 hrs |
| Aspirin | 10 mg/kg (10-20 mg/kg) | q 12 hrs | PO | Avoid if alternative available - bleeding gastric ulcers |
| Bupivacaine | < 2mg/kg local infusion | | SQ | < 4ml per 10kg body weight of 0.5% solution |
| Lidocaine | < 8 mg/kg for sq infusion | | SQ | |
| Tramadol | 2-5 mg / kg | q8-12 hrs | PO | Questionable efficacy in dogs |
| Optional NSAID - Carprofen | 2.2 mg/kg | q 12 hrs | PO | |
| Optional NSAID - Meloxicam | 0.1 mg/kg | q 24 hrs | PO | |
| Optional NSAID - Deramaxx | 1-2 mg/kg | q 24 hrs | PO | Alternate NSAID preferred due to potential increased risk of GI ulcers relative to other NSAIDS |
| Optional NSAID - Firocoxib | 5 mg/kg | q 24 hrs | PO | |
| ANTIBIOTIC | | | | |
| Amoxicillin/Clavulanic Acid | 13.75 mg/kg (10-20 mg/kg) | q 12 hrs | PO | q 8-12 hrs |
| Azithromycin | 5 - 10 mg/kg | q 24 hrs | PO | |
| Ceftriaxone | 25 mg/kg (15-50 mg/kg) | q 12-24 hrs | IV, IM | |
| Cephalexin | 22 mg/kg (10-35 mg/kg) | q 12 hrs | PO | q 8-12 hrs |
| Cefazolin | 22 mg/kg (10-30 mg/kg) | q 8 hrs | IV, IM, SQ | q 4-8 hrs |

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| Ciprofloxacin | 15 mg/kg (5-20 mg/kg) | q 24 hrs | PO | Poorly absorbed orally in dogs |
| Doxycycline | 5 mg / kg (5-10 mg/kg) | q 12 hrs | PO | q 12 - 24 hrs. Give with food. |
| Metronidazole injectable | 15 mg/kg (7.5-25 mg/kg) | q 12 hrs | IV 30 min. | |
| Metronidazole tablets | 15 mg/kg (7.5-25 mg/kg) | q 12 hrs | PO | Use low end dose if hepatopathy |
| ANTI-EMETIC / GI | | | | |
| Antacid: Famotidine or Omeprazole | 0.5-1 mg/kg | q 12-24 hrs | PO | Ranitidine / Cimetidine not effective in dogs |
| Cerenia (maropitant) injection | 1 mg / kg | IV slow, SQ | | Anti-emetic |
| Cerenia tablets | 2 mg/kg | PO | | Anti-emetic |
| Ondansetron | 0.5 mg/kg (0.2-1 mg/kg) | q 8-12 hrs | IV or PO | Can be given concurrently with Cerenia |
| OTHER | | | | |
| 4-Methylprazole (Fomepizole) Antizol-Vet | 20 mg/kg IV, 15 mg/kg IV at 12 and 24 hrs, 5mg/kg at 36 hrs | | | Ethylene glycol antidote - if unavailable, see Ethanol alternative |
| Acepromazine | 0.02-0.05 mg/kg (3mg max) | | IV, IM | Sedation only. Start low - hypotension. |
| Apomorphine tabs | Place tab subconjunctival | | SubConj | Emesis typically within 5 min, remove and flush eye with saline |
| Apomorphine injectable | 0.03mg/kg | | IV | |
| Apomorphine injectable | 0.04mg/kg | | IM | |
| Charcoal, Activated | 1 g / kg (1-2 g/kg) | | PO | Adsorbs some toxins. Emesis with large volume. Q 4 - 8 hrs if enterohepatic recirculation |
| Dexamethasone | 0.15 mg/kg (0.1-0.5 mg/kg/day) | q 12-24 hrs | IV, IM | |
| Dextrose 50% | 0.5-1 ml/kg | | IV | Dilute 1:3 with saline, equals 0.25-0.5 g/kg, follow with CRI 2.5-5% dextrose. Can administer buccal space if no IV initially. |
| Diphenhydramine injection | 2.2 mg/kg | q 8 hrs | IM, PO | |
| Ethanol - see below | | | | |
| Fexofenadine | 2-5 mg/kg | q 12 - 24 hrs | PO | |
| Hydrogen Peroxide | 2 ml/kg, max 50ml | | PO | Emesis - Apomorphine preferred. Repeat q 10 min 2-3x. Gastritis / esophagitis. |
| Mannitol - cerebral edema, acute glaucoma | 0.5-1 g/kg | q 6-8 hrs | IV 20 min | Acute glaucoma = single dose. Use in IV filter. |
| Mannitol - oliguric renal failure | 0.25-0.5 g/kg | q 4-6 hrs | IV 20 min | Repeat if substantial diuresis occurs. Max 2 g/kg/day. IV filter. |
| Pralidoxime (2-PAM) | 20 mg/kg | q 6 - 12 hrs | IV, IM, SQ | Initial dose = IV diluted in saline over 5+ min |
| Prednisone | 0.5 mg/kg (0.5 - 3 mg/kg/day) | q 12-24 hrs | PO | Max 30mg/day |
| Robitussin DM Syrup | 100mg guaifenesin + 10mg dextomethorphan | PO q 4hrs | | Med/Lg dog dose |
| OTHER NOT ON LIST - IF AVAILABLE | | | | |
| Atipamezole - amitraz toxicity | 50 mcg/kg | q 4hrs | IM | Amitraz toxicity (some tick collars), repeat q4hrs |
| Atipamezole - Dexmed reversal | same volume as dexmed | | IM | IV low dose if emergent |
| Buprenorphine | 0.015 mg/kg (0.01-0.04 mg/kg) | q 8 hrs | IV, IM | Partial mu agonist, erratic absorption SQ. q 6-12 hr |
| Butorphanol | 0.2 mg/kg (0.1-0.5mg/kg) | | IV, IM, SQ | Commonly used for short term sedation with dexmedetomidine |
| Dexmedetomidine / medetomidine | 5 mcg/kg | | IV, IM | Commonly used for short term sedation with butorphanol. Can cause significant cardiorespiratory depression at higher doses. Bradycardia common - partially or fully reverse if HR < 40 bpm. |
| Ethanol 7% solution* | 8.6 ml/kg IV slow, then 1.43 ml/kg/hr IV CRI for 36-48 hrs | | | Ethylene glycol antidote if Fomepizole unavailable - give concurrently with IVF at total of 4ml/kg/hr. Competitively inhibits alcohol dehydrogenase preventing metabolism of ethylene glycol into toxic metabolites and allowing excretion unchanged in the urine. Start within 4 hrs ideally, 8hrs at latest. |
| Ethanol 20% solution* | 5.5 ml/kg over 1 hour, repeat q 4hrs for 5 treatments, then q 6hrs for 4 treatments | | | |
| Ethanol 40%* | 1 ml/kg | | PO - dilute | Only if no IV access and delayed care. |
| *Unlikely to find pharmaceutical grade alcohol. Improvised method = vodka or grain alcohol diluted in saline or plasmalyte. 7% solution = 1 L saline, remove 175ml, add 175ml of 80 proof unflavored vodka. Calc: Volume stock ethanol = (desired % / stock %) * total volume desired. Remove volume from first step from fluid bag before adding ethanol. | | | | |
| Hydromorphone | 0.1 mg/kg (0.05-0.2 mg/kg) | q 6 hrs | IV, IM, SQ | q 2 - 6 hrs |
| References: | | | | |
| Plumb Veterinary Drug Handbook 10th ed., Merck Veterinary Manual, Vet Emergency and Critical Care Manual 3rd ed. | | | | |