

Small Animal Anesthesia Drug List

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Drug	Dose	Max	Other
Acepromazine Dog Cat	0.01-0.05 mg/kg IV, IM, SQ 0.02-0.1 mg/kg IV, IM, SQ	1 mg	
Albumin (HSA) 25%	(5-25 ml/kg) bolus 2-4 ml/kg followed by CRI 0.1-1.5 ml/kg/hr over 4 hours		Watch for anaphylaxis
Atipamezole	equal volume to dexmedetomidine, give IM (IV if emergency)		IV = dilute in saline and give SLOWLY
Atracurium	0.2 mg/kg IV (first dose) 0.1 mg/kg IV (subsequent doses)		Use with nerve stimulator
Atropine	0.02-0.04 mg/kg IV, IM, SQ		
Bupivacaine	1-2 mg/kg (epidural 0.5 mg/kg)	2 mg/kg	
Buprenorphine	0.005-0.03 mg/kg IV, IM, SQ		To reverse opioid: 5 µg/kg IV and wait ten min. If dog is better, can give 20 µg/kg IV, repeat q 4-6 hours
Butorphanol	0.2-0.4 mg/kg IV, IM, SQ	10 mg	
Carprofen	2.2 mg/kg SQ BID or 4.4 mg/kg SQ SID		Remember contraindications
Cisatracurium	0.2 mg/kg IV (first dose) 0.1 mg/kg IV (subsequent doses)		Use with nerve stimulator
Dexamethasone SP (for BAS syndrome)	0.55 mg/kg IV		
Dexmedetomidine	2-30 µg/kg IV, IM, SQ		See dosing charts on AAPMA website
Diazepam	0.1-0.25 mg/kg IV, 0.5 mg/kg IV for seizure	5 mg/kg	
Diphenhydramine	1-2 mg/kg IM (or IV)		
Dobutamine, Dopamine	5-20 µg/kg/min IV		
Doxapram	0.1-0.2 mg/kg IV	3 mg/kg	
Edrophonium	0.5 mg/kg IV		Divide total dose in 4 and wait 1-2 minutes between giving each part
Ephedrine	0.05-0.25 mg/kg IV Mix 0.1 ml with 0.9 ml saline	2-3 doses	
Epinephrine	0.02-0.2 mg/kg IV		
Etomidate	1-2 mg/kg IV to effect (administer after pre-meds)		May cause myoclonus and temporary hematuria
Fentanyl	1-5 µg/kg IV		

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Flumazenil	0.01-0.025 mg/kg IV, IM		
Glycopyrrolate	0.01 mg/kg IM 0.005-0.01 mg/kg IV		
Hydromorphone	0.05-0.2 mg/kg IV, IM SQ	5mg	
Ketamine Cat Dog	3-10 mg/kg IV 5-20 mg/kg IM 3-5 mg/kg IM		
Ketoprofen	1-2 mg/kg SQ		Remember contraindications
Lidocaine	1-3 mg/kg IV	8 mg/kg	
Mannitol	1 gram/kg IV slowly		
Meloxicam Dog Cat	0.1-0.2 mg/kg IV, SQ 0.3 mg/kg IV, SQ		Remember contraindications; Single injection only in cats
Methadone	0.2-0.6 mg/kg IV, IM 0.1 mg/kg/hr IV		
Midazolam	0.1-0.4 mg/kg IM, IV, SQ	5 mg	
Morphine	0.5-1 mg/kg IV, IM, SQ		
Nalbuphine	0.05-0.25 mg/kg IM, IV		
Naloxone	0.02 mg/kg IV 1-10 µg/kg IV		Mix 1ml with 9 ml saline, titrate 1ml/min to effect
Neostigmine	0.01 mg/kg IV	0.03 mg/kg	Always give atropine first
Oxymorphone	0.05-0.2 mg/kg IV, SQ, IM	3 mg	
Pancuronium	0.01-0.025 mg/kg IV		
PF morphine	0.1 mg/kg		Epidurals and intra- articular injections
Phenylephrine	2-5 µg/kg/min IV		
Propofol	4-10 mg/kg IV to effect		
Telazol	5-8 mg/kg IM (pre-medication) 10-12 mg/kg IM (induction) 1-2 mg/kg IV		When used as a pre- med, combine with opioid
Thiopental	8-12 mg/kg IV		
Xylazine Cat Dog	cat 0.2-0.75 mg/kg IV, IM, SQ dog 0.2-0.5 mg/kg IV, IM, SQ		
Yohimbine	0.05-0.2 mg/kg IV		

Percent solutions

For example, you need to make a 2.5 percent dextrose solution in your fluids.

Ask: How many ml of a 50% solution equals 2.5% of 1000ml LRS?

Emergency drugs: 1cc/20 lbs: atropine, epinephrine, lidocaine

Puppy resuscitation: atropine, doxapram, O₂, warmth