

Weight (Kgs)	MODERATE SEDATION			Weight (Lbs)
	Dexmedetomidine	Ketamine	Hydromorphone	
	0.5 mg/mL	100 mg/mL	10 mg/mL	
	mL	mL	mL	
2.0 - 3.0	0.08	0.08	0.02	4.4 - 6.6
3.1 - 4.0	0.10	0.10	0.02	6.7 - 8.8
4.1 - 5.0	0.14	0.14	0.03	8.9 - 11.0
5.1 - 10.0	0.20	0.20	0.04	11.1 - 22.0
10.1 - 13.0	0.26	0.26	0.05	22.1 - 28.6
13.1 - 15.0	0.30	0.30	0.06	28.7 - 33.0
15.1 - 20.0	0.34	0.34	0.07	33.1 - 44.0
20.1 - 25.0	0.40	0.40	0.08	44.1 - 55.0
25.1 - 30.0	0.46	0.46	0.09	55.1 - 66.0
30.1 - 33.0	0.50	0.50	0.10	66.1 - 72.6
33.1 - 37.0	0.54	0.54	0.11	72.7 - 81.4
37.1 - 45.0	0.60	0.60	0.12	81.5 - 99.0
45.1 - 50.0	0.66	0.66	0.13	99.1 - 110.0
50.1 - 55.0	0.70	0.70	0.14	110.1 - 121.0
55.1 - 60.0	0.76	0.76	0.15	121.1 - 132.0
60.1 - 65.0	0.80	0.80	0.16	132.1 - 143.0
65.1 - 70.0	0.84	0.84	0.17	143.1 - 154.0
70.1 - 80.0	0.90	0.90	0.18	154.1 - 176.0
80.1 >	0.94	0.94	0.19	176.1 >

Draw up dexmedetomidine, ketamine and hydromorphone separately, then combine in the same syringe. This combination of drugs is known as *puppy magic* and is administered IM.

Puppy magic can be used even if the patient has gabapentin, trazodone, acepromazine/hydromorphone, etc., on board. The hydromorphone is dosed lower than a standard premedication dose; therefore, the hydromorphone may be excluded or adjusted in the *puppy magic* injection at the veterinarian's discretion. The remaining hydromorphone from the canine premedication chart will be given also at the veterinarian's discretion.

After the *puppy magic* drugs have had an appropriate amount of time to take effect (typically 15-20 mins) and the patient is safe to handle, give the standard induction agent (ketamine/midazolam) to effect, if needed. If the dog is unable to be safely handled, redose the *puppy magic* in full or partial increments at the veterinarian's discretion.

Turn ISO on only after the patient breathes on their own - typically requiring 0.5-1.5% ISO.

Heart rate may occasionally be 40-50 bpm. Ensure the patient is breathing well and pulses are strong. Place an esophageal stethoscope to assist with evaluation.

1/4 of the *puppy magic* dose may be administered for light sedation, as needed (i.e., recheck of an anxious dog).

Canine patients can be induced in their crate or transitioned to a dog squeeze cage if necessary (similar to community cats).