

Weight (Kgs)	Acepromazine	Hydromorphone	Ketamine	Midazolam	Meloxicam	1 / 2 Meloxicam	Oral Meloxicam	Weight (lbs)
	mL (SQ or IM)	mL (SQ or IM)	mL (IV)	mL (IV)	mL (SQ)	mL (SQ)	mL (PO)	
	0.05 mg/kg	0.1 mg/kg	See below	See below	0.2 mg/kg	0.1 mg/kg	0.1 mg/kg	
	1 mg/mL	10 mg/mL	100 mg/mL	5 mg/mL	5 mg/mL	5 mg/mL	1.5 mg/mL	
1.0	0.1	0.02	0.06	0.07	0.04	0.02	-	2.2
1.5	0.1	0.02	0.09	0.11	0.06	0.03	0.10	3.3
2.0	0.1	0.02	0.12	0.14	0.08	0.04	0.15	4.4
2.5	0.1	0.02	0.15	0.18	0.10	0.05	0.15	5.5
3.0	0.2	0.04	0.18	0.21	0.12	0.06	0.20	6.6
3.5	0.2	0.04	0.21	0.25	0.14	0.07	0.20	7.7
4.0	0.2	0.04	0.24	0.28	0.16	0.08	0.25	8.8
4.5	0.2	0.04	0.27	0.32	0.18	0.09	0.30	9.9
5.0	0.5	0.06	0.30	0.35	0.20	0.10	0.30	11.0
5.5	0.5	0.06	0.3	0.4	0.20	0.10	0.35	12.1
6.0	0.5	0.06	0.4	0.4	0.25	0.15	0.40	13.2
6.5	0.5	0.06	0.4	0.5	0.25	0.15	0.40	14.3
7.0	0.5	0.06	0.4	0.5	0.30	0.15	0.45	15.4
7.5	0.5	0.08	0.5	0.5	0.30	0.15	0.50	16.5
8.0	0.5	0.08	0.5	0.6	0.30	0.15	0.50	17.6
8.5	0.5	0.08	0.5	0.6	0.35	0.20	0.55	18.7
9.0	0.5	0.08	0.5	0.6	0.35	0.20	0.60	19.8
9.5	0.7	0.10	0.6	0.7	0.40	0.20	0.60	20.9
10.0	0.7	0.10	0.6	0.7	0.40	0.20	0.65	22.0
10.5	0.7	0.10	0.6	0.7	0.40	0.20	0.70	23.1
11.0	0.7	0.10	0.7	0.8	0.45	0.25	0.70	24.2
11.5	0.7	0.10	0.7	0.8	0.45	0.25	0.75	25.3
12.0	0.7	0.13	0.7	0.8	0.50	0.25	0.80	26.4
12.5	0.7	0.13	0.8	0.9	0.50	0.25	0.80	27.5
13.0	0.7	0.13	0.8	0.9	0.50	0.25	0.85	28.6
13.5	0.7	0.13	0.8	0.9	0.55	0.30	0.90	29.7
Weight (Kgs)	Acepromazine	Hydromorphone	Ketamine	Midazolam	Meloxicam	1 / 2 Meloxicam	Oral Meloxicam	Weight (lbs)
	10 mg/mL	10 mg/mL	100 mg/mL	5 mg/mL	5 mg/mL	5 mg/mL	1.5 mg/mL	
14.0	0.1	0.15	0.8	1.0	0.55	0.30	0.90	30.8
14.5	0.1	0.15	0.9	1.0	0.60	0.30	0.95	31.9
15.0	0.1	0.15	0.9	1.1	0.60	0.30	1.00	33.0
15.5	0.1	0.15	0.9	1.1	0.60	0.30	1.00	34.1
16.0	0.1	0.15	1.0	1.1	0.65	0.35	1.00	35.2
16.5	0.1	0.17	1.0	1.2	0.65	0.35	1.10	36.3
17.0	0.1	0.17	1.0	1.2	0.70	0.35	1.10	37.4
17.5	0.1	0.17	1.1	1.2	0.70	0.35	1.20	38.5
18.0	0.1	0.17	1.1	1.3	0.70	0.35	1.20	39.6
18.5	0.1	0.20	1.0	1.5	0.75	0.40	1.20	40.7
19.0	0.1	0.20	1.0	1.5	0.75	0.40	1.30	41.8
19.5	0.1	0.20	1.1	1.6	0.80	0.40	1.30	42.9
20.0	0.1	0.20	1.1	1.6	0.80	0.40	1.30	44.0
20.5	0.1	0.20	1.1	1.6	0.80	0.40	1.40	45.1
21.0	0.1	0.22	1.2	1.7	0.85	0.45	1.40	46.2
21.5	0.1	0.22	1.2	1.7	0.85	0.45	1.40	47.3
22.0	0.1	0.22	1.2	1.8	0.90	0.45	1.50	48.4
22.5	0.1	0.22	1.2	1.8	0.90	0.45	1.50	49.5
23.0	0.1	0.22	1.2	2.1	0.90	0.45	1.50	50.6
23.5	0.1	0.24	1.2	2.1	0.95	0.50	1.60	51.7
24.0	0.1	0.24	1.2	2.2	0.95	0.50	1.60	52.8
24.5	0.1	0.24	1.2	2.2	1.00	0.50	1.60	53.9
25.0	0.1	0.24	1.3	2.3	1.00	0.50	1.70	55.0

Weight (Kgs)	Acepromazine mL (SQ or IM) 0.05 mg/kg	Hydromorphone mL (SQ or IM) 0.1 mg/kg	Ketamine mL (IV) <i>See below</i>	Midazolam mL (IV) <i>See below</i>	Meloxicam mL (SQ) 0.2 mg/kg	1/2 Meloxicam mL (SQ) 0.1 mg/kg	Oral Meloxicam mL (PO) 0.1 mg/kg	Weight (lbs)
	10 mg/mL	10 mg/mL	100 mg/mL	5 mg/mL	5 mg/mL	5 mg/mL	1.5 mg/mL	
25.5	0.1	0.26	13	2.1	100	0.50	1.70	56.1
26.0	0.1	0.26	13	2.3	105	0.55	1.70	57.2
26.5	0.1	0.26	13	2.4	105	0.55	1.80	58.3
27.0	0.1	0.26	12	2.4	110	0.55	1.80	59.4
27.5	0.1	0.28	12	2.8	110	0.55	1.80	60.5
28.0	0.1	0.28	13	2.8	110	0.55	1.90	61.6
28.5	0.1	0.28	13	2.9	115	0.60	1.90	62.7
29.0	0.1	0.28	13	2.9	115	0.60	1.90	63.8
29.5	0.1	0.28	13	3.0	120	0.60	2.00	64.9
30.0	0.1	0.30	14	3.0	120	0.60	2.00	66.0
30.5	0.1	0.30	14	3.1	120	0.60	2.00	67.1
31.0	0.1	0.30	14	3.1	125	0.65	2.10	68.2
31.5	0.1	0.30	14	3.2	125	0.65	2.10	69.3
32.0	0.1	0.30	14	3.2	130	0.65	2.10	70.4
32.5	0.1	0.32	15	3.3	130	0.65	2.20	71.5
33.0	0.1	0.32	15	3.3	130	0.65	2.20	72.6
33.5	0.1	0.32	15	3.4	135	0.70	2.20	73.7
34.0	0.1	0.32	15	3.4	135	0.70	2.30	74.8
34.5	0.1	0.34	14	3.8	140	0.70	2.30	75.9
35.0	0.1	0.34	14	3.9	140	0.70	2.30	77.0
35.5	0.1	0.34	14	3.9	140	0.70	2.40	78.1
36.0	0.1	0.34	14	4.0	145	0.75	2.40	79.2
36.5	0.1	0.34	15	4.0	145	0.75	2.40	80.3
37.0	0.1	0.38	15	4.1	150	0.75	2.50	81.4
37.5	0.1	0.38	15	4.1	150	0.75	2.50	82.5
38.0	0.1	0.38	15	4.2	150	0.75	2.50	83.6
38.5	0.1	0.38	15	4.2	155	0.80	2.60	84.7
39.0	0.1	0.40	16	4.3	155	0.80	2.60	85.8
39.5	0.1	0.40	16	4.3	160	0.80	2.60	86.9
40.0	0.1	0.40	16	4.4	160	0.80	2.70	88.0
40.5	0.1	0.40	16	4.5	160	0.80	2.70	89.1
41.0	0.1	0.40	16	4.5	165	0.85	2.70	90.2
41.5	0.1	0.42	17	5.0	165	0.85	2.80	91.3
42.0	0.1	0.42	17	5.0	170	0.85	2.80	92.4
42.5	0.1	0.42	17	5.1	170	0.85	2.80	93.5
43.0	0.1	0.42	17	5.2	170	0.85	2.90	94.6
43.5	0.1	0.44	17	5.2	175	0.90	2.90	95.7
44.0	0.1	0.44	18	5.3	175	0.90	2.90	96.8
44.5	0.1	0.44	18	5.3	180	0.90	3.00	97.9
45.0	0.1	0.44	18	5.4	180	0.90	3.00	99.0
45.5	0.1	0.44	18	5.5	180	0.90	3.00	100.1
46.0	0.1	0.46	18	5.5	185	0.95	3.10	101.2
46.5	0.1	0.46	19	5.6	185	0.95	3.10	102.3
47.0	0.1	0.46	19	5.6	190	0.95	3.10	103.4
47.5	0.1	0.46	19	5.7	190	0.95	3.20	104.5
48.0	0.1	0.46	19	5.8	190	0.95	3.20	105.6
48.5	0.1	0.48	19	5.8	195	1.00	3.20	106.7
49.0	0.1	0.48	2.0	5.9	195	1.00	3.30	107.8
49.5	0.1	0.48	2.0	5.9	2.00	1.00	3.30	108.9
50.0	0.1	0.48	2.0	6.0	2.00	1.00	3.30	110.0

Acepromazine				
Wgt (Kgs)	Concentration	Route	Dosage	Wgt (Lbs)
1-13.5	1 mg/mL	SQ or IM	0.05 mg/kg	2-30
14≥	10 mg/mL	SQ or IM	0.05 mg/kg	31≥

* For animals 14 kg or greater, acepromazine is usually capped at 1 mg

Hydromorphone				
Wgt (Kgs)	Concentration	Route	Dosage	Wgt (Lbs)
All Weights	10 mg/mL	SQ or IM	0.1 mg/kg	All Weights

Ketamine				
Wgt (Kgs)	Concentration	Route	Dosage	Wgt (Lbs)
1-18	100 mg/mL	IV	6 mg/kg	2-40
18.5-22.5	100 mg/mL	IV	5.5 mg/kg	41-50
23-27	100 mg/mL	IV	5 mg/kg	51-60
27.5-34	100 mg/mL	IV	4.5 mg/kg	61-75
34.5-41	100 mg/mL	IV	4 mg/kg	76-90
41.5≥	100 mg/mL	IV	4 mg/kg	91≥

Midazolam				
Wgt (Kgs)	Concentration	Route	Dosage	Wgt (Lbs)
1-18	5 mg/mL	IV	0.35 mg/kg	2-40
18.5-22.5	5 mg/mL	IV	0.4 mg/kg	41-50
23-27	5 mg/mL	IV	0.45 mg/kg	51-60
27.5-34	5 mg/mL	IV	0.5 mg/kg	61-75
34.5-41	5 mg/mL	IV	0.55 mg/kg	76-90
41.5≥	5 mg/mL	IV	0.6 mg/kg	91≥

Meloxicam			
Age	Concentration	Route	Dosage
≤4 months	5 mg/mL	SQ	0.1 mg/kg
>4 months	5 mg/mL	SQ	0.2 mg/kg

Canine Drug Protocol	
Hydromorphone is administered with acepromazine SQ or IM as pre-med	
Ketamine/midazolam (diazepam is interchangeable with midazolam) is administered IV for induction	
Meloxicam is administered SQ at prep	
One subsequent dose of meloxicam can be given at 0.1 mg/kg 24 hours postoperatively, as needed	
Certain numbers were rounded for ease of administration for dosing.	
Dexamethasone can be substituted for meloxicam in brachycephalic dogs at a dose of 0.1 mg/kg (IV route preferred; IM route acceptable alternative).	