

Table 1. DBK combination for light and mild sedation-premedication

Dexmedetomidine-Opioid-Ketamine-Sedation/analgesia In Dogs					
		Light Sedation		Mild sedation	
Dog Weight		Dexmedetomidine <u>62.5 µg/m² IM</u>		Dexmedetomidine <u>125 µg/m² IV or IM</u>	
Lbs	Kg	µg/kg	Dexmed ml	µg/kg	Dexmed ml
4-7	2-3	4.7	0.02 (0.10)	9.4	0.04 (0.20)
7-9	3-4	4.15	0.025 (0.13)	8.3	0.05 (0.25)
9-11	4-5	3.85	0.035 (0.18)	7.7	0.07 (0.35)
11-22	5-10	3.25	0.05 (0.26)	6.5	0.10 (0.50)
22-29	10-13	2.8	0.065 (0.33)	5.6	0.13 (0.65)
29-33	13-15	2.6	0.075 (0.38)	5.2	0.15 (0.75)
33-44	15-20	2.45	0.085 (0.43)	4.9	0.17 (0.85)
44-55	20-25	2.25	0.10	4.5	0.20
55-66	25-30	2.1	0.115	4.2	0.23
66-73	30-33	2.0	0.125	4.0	0.25
73-81	33-37	1.95	0.135	3.9	0.27
81-99	37-45	1.5	0.15	3.7	0.30
99-110	45-50	1.75	0.165	3.5	0.33
110-121	50-55	1.7	0.175	3.4	0.35
121-132	55-60	1.65	0.19	3.3	0.38
132-143	60-65	1.45	0.20	3.2	0.40
143-154	65-70	1.41	0.21	3.1	0.42
154-176	70-80	1.5	0.225	3.0	0.45
>176	>80	1.31	0.235	2.9	0.47

1) Black color font represents volume of 0.5 mg/ml –Dexdomitor

2) Pink color font represents volume of 0.1 mg/ml of Dexdomitor

3) Use **opioid** and **ketamine** in an identical injection volume as **Dexdomitor (0.5 mg/ml)** as shown in the table.

4) For dogs less than 20 lbs use **Dexdomitor (0.1 mg/ml) volume** **but keep the opioid and ketamine volume the same as Dexdomitor 0.5 mg/ml as shown** in the table.

5) Choice of opioid- butorphanol (10 mg/mL), hydromorphone (2 mg/mL), morphine (15 mg/mL), or buprenorphine (300 mcg/mL).

Table 2. DBK combination –Moderate –Profound sedation

Dexmedetomidine-Opioid-Ketamine Sedation/Anesthesia In Dogs					
		Moderate Sedation		Profound sedation	
Dog		Dexmedetomidine		Dexmedetomidine	
Weight		250 µg/m² IM		375 µg/m² IV or IM	
Lbs	Kg	µg/kg	Dexmed ml	µg/kg	Dexmed ml
4-7	2-3	20	0.08 (0.4)	28.1	0.12 (0.6)
7-9	3-4	16.6	0.10 (0.5)	25.0	0.15 (0.75)
9-11	4-5	15.5	0.14 (0.7)	23.0	0.20 (1.0)
11-22	5-10	13.3	0.20 (1.0)	19.6	0.29 (1.45)
22-29	10-13	10.8	0.26 (1.3)	16.8	0.38 (1.9)
29-33	13-15	10.7	0.30	15.7	0.44
33-44	15-20	9.7	0.34	14.6	0.51
44-55	20-25	8.9	0.40	13.4	0.60
55-66	25-30	8.4	0.46	12.6	0.69
66-73	30-33	7.9	0.50	12.0	0.75
73-81	33-37	7.7	0.54	11.6	0.81
81-99	37-45	7.5	0.60	11.0	0.90
99-110	45-50	6.9	0.66	10.5	0.99
110-121	50-55	6.6	0.70	10.1	1.06
121-132	55-60	6.6	0.76	9.8	1.13
132-143	60-65	6.4	0.80	9.5	1.19
143-154	65-70	6.2	0.84	9.3	1.26
154-176	70-80	6.0	0.90	9.0	1.35
>176	>80	5.8	0.94	8.7	1.42

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3) Use **opioid** and **ketamine** in an identical injection volume as **Dexdomitor (0.5 mg/ml)** as shown in the table.

4) For dogs less than 20 lbs use **Dexdomitor (0.1 mg/ml) volume** but keep the opioid and ketamine volume the same as Dexdomitor 0.5 mg/ml as shown in the table.

5) Choice of opioid- butorphanol (10 mg/mL), hydromorphone (2 mg/mL), morphine (15 mg/mL), or buprenorphine (300 mcg/mL).

Table 3. DBK combination- surgical injectable combination and micro-dose for smoothing rough recovery.

Dexmedetomidine-Opioid-Ketamine Anesthesia-Analgesia In Dogs					
		Micro-dose		Invasive procedures	
Dog		Dexmedetomidine (0.1 mg/ml)		Dexmedetomidine	
Weight		ONE $\mu\text{g}/\text{m}^2$ IV		500 $\mu\text{g}/\text{m}^2$ IM	
lbs	kg	$\mu\text{g}/\text{kg}$	Dexmed ml	$\mu\text{g}/\text{kg}$	Dexmed ml
4-7	2-3	1	<u>0.02-0.03</u>	40.0	0.15 (0.75)
7-9	3-4	1	<u>0.03-0.04</u>	35.0	0.20 (1.0)
9-11	4-5	1	<u>0.04-0.05</u>	30.0	0.30 (1.5)
11-22	5-10	1	<u>0.05-0.10</u>	25.0	0.40 (2.0)
22-29	10-13	1	<u>0.10-0.13</u>	23.0	0.50
29-33	13-15	1	<u>0.13-0.15</u>	21.0	0.60
33-44	15-20	1	<u>0.15-0.20</u>	20.0	0.70
44-55	20-25	1	<u>0.20-0.25</u>	18.0	0.80
55-66	25-30	1	<u>0.25-0.30</u>	17.0	0.90
66-73	30-33	1	<u>0.30-0.33</u>	16.0	1.00
73-81	33-37	1	<u>0.33-0.37</u>	15.0	1.10
81-99	37-45	1	<u>0.37-0.45</u>	14.5	1.20
99-110	45-50	1	<u>0.45-0.50</u>	14.0	1.30
110-121	50-55	1	<u>0.50-0.55</u>	13.5	1.40
121-132	55-60	1	<u>0.55-0.60</u>	13.0	1.50
132-143	60-65	1	<u>0.60-0.65</u>	12.8	1.60
143-154	65-70	1	<u>0.65-0.70</u>	12.5	1.70
154-176	70-80	1	<u>0.70-0.80</u>	12.3	1.80
>176	>80	1	<u>0.80-1.0</u>	12.0	1.90

* Black color font represents volume of 0.5 mg/ml –Dexdomitor

**Pink color font represents volume of 0.1 mg/ml of Dexdomitor
Micro-dose Dexdomitor dosing volume is using 0.1 mg/ml

Table 4. Dose chart for DBK combination in cats

Dexmedetomidine-Opioid-Ketamine Sedation/analgesia In Cats					
Cat Weight		Drug Volume (ml)			IM route
		Dexmedetomidine- Butorphanol- ketamine			
Lbs	Kg	Light	Moderate	Profound	Surgery
4-7	2-3	0.012 (0.06)	0.025 (0.13)	0.05 (0.25)	0.1 (0.5)
7-9	3-4	0.025 (0.13)	0.05 (0.25)	0.1 (0.5)	0.2 (1.0)
9-13	4-6	0.05 (0.25)	0.1 (0.5)	0.2 (1.0)	0.3
13-15	6-7	0.1 (0.50)	0.2 (1.0)	0.3	0.4
15-18	7-8	0.15 (0.75)	0.3	0.4	0.5
18-22	8-10	0.2 (1.0)	0.4	0.5	0.6

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3) Use **opioid** and **ketamine** in an identical injection volume as **Dexdomitor (0.5 mg/ml)** as shown in the table.

4) For cats less than 13 lbs use **Dexdomitor (0.1 mg/ml) volume** **but keep the opioid and ketamine volume the same as Dexdomitor 0.5 mg/ml as shown** in the table.

5) Choice of opioid- butorphanol (10 mg/mL), hydromorphone (2 mg/mL), morphine (15 mg/mL), or buprenorphine (300 mcg/mL).