



Local Anesthetic Blocks Series  
**LOCAL ANESTHESIA FOR THE  
 DISTAL EXTREMITY**

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**LOCAL ANESTHETIC CALCULATION CHEAT SHEET**  
**BUPIVACAINE (0.5%)**  
 2 mg/kg Maximum Dose for Dogs & Cats  
 Dental,<sup>a</sup> Incisional, and Ring Blocks<sup>b</sup>



WEIGHT		MAXIMUM VOLUME <sup>c</sup>
kg	lbs	mL
1	2	0.4
2	4	0.8
3	7	1.2
4	9	1.6
5	11	2.0
6	13	2.4
7	15	2.8
8	18	3.2
9	20	3.6
10	22	4.0
11	24	4.4
12	26	4.8
13	29	5.2
14	31	5.6
15	33	6.0
16	35	6.4
17	37	6.8
18	40	7.2
19	42	7.6
20	44	8.0

WEIGHT		MAXIMUM VOLUME <sup>c</sup>
kg	lbs	mL
21	46	8.4
22	48	8.8
23	51	9.2
24	53	9.6
25	55	10.0
26	57	10.4
27	59	10.8
28	62	11.2
29	64	11.6
30	66	12.0
31	68	12.4
32	70	12.8
33	73	13.2
34	75	13.6
35	77	14.0
36	79	14.4
37	81	14.8
38	84	15.2
39	86	15.6
40	88	16.0

<sup>a</sup>If maximum volume allows, use 0.25 to 1 mL of bupivacaine per dental block.  
<sup>b</sup>If larger volume is needed to distribute over lengthy incision, dilute 1:1 with sterile saline or LRS.  
<sup>c</sup>Volumes have been calculated using bupivacaine concentration of 5 mg/mL or 0.5%

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