

Anti-Seizure Medications Dosages

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Source:

What can we do for patients with refractory epilepsy?

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Table. Maintenance Therapy Dose, Elimination Half-life, and Time to Steady-State Therapeutic
→ Serum Concentrations^a in Dogs and Cats^b

			Time to
AED	Maintenance dose	Elimination half-life	steady state
Phenobarbital	Dogs: 2-6 mg/kg every 12 h (orally,	24-48 hours (dogs)	7-14 days
	IM, IV)	34-50 hours (cats)	
	Cats: 1-3 mg/kg every 12 h (orally,		
	IM, IV)		
Potassium	Dogs: 20-40 mg/kg orally every 24	20 days	120 days
bromide	h		
	Cats: contraindicated due to		
	idiosyncratic eosinophilic		
	pneumonitis		
Levetiracetam	Levetiracetam Dogs and cats: 20-40 mg/kg (orally,		1 day
	IV)		
	Administer every 12 h for extended		
	release and every 8 h for regular		
	release formulations.		
Zonisamide	Zonisamide Dogs: 7-10 mg/kg orally every 12 h		7 days
	Cats: 5-10 mg/kg orally every 12 h		
Pregabalin Dogs: 3-4 mg/kg orally every 8 to		7 hours	3 days
	12 h		
	Cats: unknown (not yet studied)		
CBD oil ^c	Dogs: 2.5-5 mg/kg orally every 12 h	1.5-2 hours	1 day
	Cats: 2 mg/kg orally every 12 h		

AED, antiepileptic drug; CBD, cannabidiol; IM, intramuscularly; IV, intravenously.

^aTherapeutic serum concentrations ("blood levels") should be obtained after the time to steady state has been reached.

^bWhere known and based on available literature.

The dosages for CBD oil are preliminary, based on initial published literature. Studies continue to evolve, and our understanding of dosage and efficacy may change as more data become available.



Source:

tvpjournal.com | May/June 2015 | TODAY'S VETERINARY PRACTICE Epileptic Emergencies - **STATUS EPILEPTICUS IN CANINE PATIENTS** - Oriana D. Scislowicz, BS, LVT

TABLE 1. Recommended Dosages of Antiepileptic Drugs for Use in Dogs with SE

Recommended Dosages of Antieplieptic Drugs for Use in Dogs with SE			
ANTIEPILEPTIC DRUG	RECOMMENDED DOSAGES		
Diazepam	 0.5–2 mg/kg IV (up to 20 mg) If patient is receiving phenobarbital, higher dose of 2 mg/kg may be needed Monitor for cardiac/respiratory depression, nausea, agitation² 		
Fosphenytoin	15 mg/kg phenytoin equivalents IV or IM (starting dose for dogs) ¹		
Ketamine	3–5 mg/kg IV bolus; then 0.2–0.6 mg/kg/H IV CRI ²		
Levetiracetam	20–60 mg/kg IV bolus injection over 5 minutes Q 8 H in-hospital; 20 mg/kg PO Q 8 H ⁴		
Lorazepam	0.05–0.2 mg/kg IV bolus; then 0.2–0.4 mg/kg/H IV CRI ¹		
Midazolam	0.5–2 mg/kg IV or IM; then 0.2–1 mg/kg/H IV CRI¹		
Phenobarbital	12–24 mg/kg IV loading dose, which is administered in aliquots of 2–4 mg/kg IV Q 20–30 min (max, 24 mg/kg over 24 H) 2		
Phenytoin	15–20 mg/kg IV¹ slow bolus		
Propofol	1–2 mg/kg IV bolus; then 0.05–0.6 mg/kg/min IV CRI (titrate to effect) ²		



Weight to Body Surface Area Conversion for Dogs – for the Dextmedetomidine in Status Epilepticus

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		TABLE	Close ←	
Weight to Body Surface Area Conversion for Dogs				
Body wt (kg)	BSA (m ²)	Body wt (kg)	BSA (m²)	
0.5	0.064	26	0.886	
1.0	0.101	27	0.909	
1.5	0.132	28	0.931	
2.0	0.160	29	0.953	
2.5	0.186	30	0.975	
3.0	0.210	31	0.997	
3.5	0.233	32	1.018	
4.0	0.255	33	1.039	
4.5	0.275	34	1.060	
5	0.295	35	1.081	
6	0.333	36	1.101	
7	0.370	37	1.121	
8	0.404	38	1.142	
9	0.437	39	1.162	
10	0.469	40	1.181	
11	0.500	41	1.201	
12	0.529	42	1.220	