

Drug	Cost/25#/month**	Dosage Range	Serum Level Testing	Special Considerations	Side Effects
<b>Phenobarbital</b>	\$10-20	<b>Dogs:</b> 2.5-5mg/kg <b>Cats:</b> 2-4mg/kg, start at 2mg/kg	Trough in 2 weeks (timing only matters in about 10% of patients)	-Check CBC/chem. Every 6-12 months -Check thyroid panel before starting -therapeutic range: 15-45ug/ml (aim for 20-35ug/ml)	<b>Common:</b> PU/PD/PP/weight gain/sedation/ataxia (sedation is worse in brain tumor/stroke patients) <b>Rare:</b> Hepatic failure <b>Very rare:</b> bone marrow necrosis, superficial necrolytic dermatitis <b>Cats also get:</b> facial pruritis, distal limb edema
<b>Bromide</b>	Variable by compound -ing pharmacy  Usually low cost	<b>Dogs:</b> 30-40mg/kg/day as a single agent 20-30mg/kg/day when using phenobarbital -start with half dose if renal insufficiency <b>Cats: DON'T USE</b>	<b>Maintenance dosing:</b> 3 months  <b>After loading:</b> 1. One week 2. One month 3. Three months -Adjust dosage if 30d level is >/=10% lower	-add on or primary -must keep a consistent diet including snacks -liquid is easier for dosing adjustment -NaBr can be used in Addisonian patients -1-3mg/ml (0.8-2.4 if on PB) -don't load if renal disease is present	<b>Common:</b> PU/PD/PP/weight gain/sedation/ataxia/pelvic limb stiffness/vomiting and diarrhea <b>Rare:</b> hyperactivity, pruritis, pancreatitis, aggression <b>Very rare:</b> persistent bronchitis-type cough (idiopathic pneumonitis ), axonopathy with LMN signs
<b>Zonisamide/ Zonegran</b>	\$12-70	<b>Dogs:</b> start with 5mg/kg BID -start with 10mg/kg BID if on phenobarbital <b>Cats:</b> 5-10mg/kg Q12-24H	Trough levels in one week	-little information for use in cats but anecdotal reports are promising *might be able to give once daily in cats -add on or primary	<b>Side effects are uncommon:</b> transient sedation, ataxia, vomiting <b>Rare to very rare:</b> hepatic necrosis, renal tubular acidosis, autoimmune diseases
<b>Levetiracetam/ Keppra</b>	\$10-250  ER: \$75-90	<b>Dogs:</b> 20mg/kg TID -increase 20mg/kg until effective, expensive, side effects are seen <b>Cats:</b> 20mg/kg TID	Consider monitoring to get baseline of effectiveness  5-40ug/ml target	-add on or primary -may be neuroprotective -no hepatic metabolism -possible honeymoon effect -benign in cats	<b>Common:</b> salivation, restlessness, vomiting, ataxia (over 400mg/kg/day) -resolves within 24 hours of discontinuation <b>Rare to very rare:</b> aggression or other behavioral change
<b>Topiramate/ Topamax</b>	\$10-140	<b>Dogs:</b> 5-10mg/kg BID <b>Cats:</b> 12.5-25mg total Q8-12H	Not usually monitored in humans  2-25ug/ml target?	-may be a useful add-on -some use as primary -feline lab studies suggest some safety, but wider clinical safety unknown	<b>Side effects are uncommon:</b> transient sedation, ataxia, nausea <b>Rare to very rare:</b> urolithiasis, renal failure -most unusual side effects remain unknown due to infrequent use to date