

Table 7a. Summary of Commonly Used AEDs

DRUG	INITIAL DOSE	AVG. ADULT DAILY MAINTENANCE DOSE	AVG. HALF-LIFE (HR.)	“THERAPEUTIC RANGE”	% PROTEIN BOUND	METABOLISM	COMMENTS
carbamazepine (Tegretol)	100 mg hs or bid	600-1800 mg (15-25 mg/kg)	12-20	6-12 mg/l	70	hepatic	ineffective in generalized seizures
clonazepam (Klonopin)	0.5-1.0 mg hs or bid	5-15 mg (.03-.3 mg/kg)	24-28	.01-.05 mg/l	80	hepatic	tolerance may develop
ethosuximide (Zarontin)	250 mg hs	500-1000 mg (10-30 mg/kg)	30-60	40-100 mg/l	0	hepatic	effective for absence only
felbamate (Felbatol)	600 mg bid	3600 mg	20-24	? 30-140 mg/l	25	hepatic & renal	multiple interactions
gabapentin (Neurontin)	300 mg bid	1800 mg	5-7	not established	0	renal excretion	no drug interactions ineffective in generalized seizures
lamotrigine (Lamictal)	50/d if added to PHT/CBZ; 25 qod if added to VPA	300-500 mg with PHT/CBZ; 100-150 mg with VPA	6-30 with PHT/CBZ; 30-100 with VPA	? 2-20 mg/l	55	hepatic	probable broad spectrum; slow titration
phenobarbital	90 mg hs	90-180 mg (2-4 mg/kg)	72-168	10-40 mg/l	40-60	hepatic	once daily dosing
phenytoin (Dilantin)	300 mg/d	300-400 mg (3-7 mg/kg)	10-30 or more	10-20 mg/l	85-95	hepatic	saturation kinetics
primidone (Mysoline)	125 mg hs	750-1500 mg (10-20 mg/kg)	10-20	50-120 mg/l	85-95	hepatic	broad spectrum efficacy
valproate/divalproex sodium (Depakote)	250 mg hs or bid	1000-3000 mg (15-60 mg/kg)	10-20	50-120 mg/l	85-95	hepatic	broad spectrum efficacy
topiramate (Topamax)	50 mg/d	300-600 mg/d	18-22	?	13-17	renal & hepatic	slow titration
tiagabine (Gabatril)	4-8 mg/d	32-56 mg/d	5-8	?	96	hepatic	tid or qid
levetiracetam (Keppra)	500 mg bid	1000-3000 mg/d	6-8	?	0	renal	start at therapeutic dose
zonisamide (Zonegran)	100 mg/d	200-600 mg/d	50 - 70	?	40-60	hepatic	contraindicated in patients with sulfa allergy; once daily dosing
oxcarbazepine (Trileptal)	200 mg bid	900-3000 mg/d	8-10	?	50	hepatic	do not use with carbamazepine
Extended release valproate (Depakote ER, Depakote sprinkles)	125-250mg bid	1000-3000 mg/d		50-120 mg/l	85-95	hepatic	twice daily dosing
Extended release carbamazepine (Tegretol XR, Carbatrol)	100-200 mg bid	600- 1800 mg/d	*	6-12	70	hepatic	*twice daily dosing of both extended release formulations is bioequivalent to qid dosing of immediate release formulation