

Table 7b. AED Toxicity

DRUG	DOSE-RELATED	IDIOSYNCRATIC	LONG-TERM
carbamazepine (Tegretol)	GI distress, hyponatremia, mild leukopenia, diplopia, dizziness, drowsiness, ataxia, dystonias	Stevens-Johnsons Syndrome (SJS), rash, hepatitis, marrow suppression	Osteomalacia, cardiac toxicity (arrhythmias in older, predisposed patients)
clonazepam (Klonopin)	sedation, ataxia, behavioral disturbance, nystagmus, visual disturbance	rare hepatic, renal toxicity rare leukopenia, TTP, and rash	Tolerance to dose, seizures with abrupt withdrawal
ethosuximide (Zarontin)	GI distress, headache, photophobia	rash, marrow suppression, psychiatric disturbance	
felbamate (Felbatol)	GI distress, headache, insomnia, anorexia, ataxia, dizziness, GI upset	Rash, hypersensitivity, aplastic anemia, hepatic failure	
gabapentin (Neurontin)	sleepiness, ataxia, dizziness, weight gain	none	
lamotrigine (Lamictal)	dizziness, headache, diplopia, ataxia, rash, GI upset	SJS, rash, (may be higher risk with valproate), rare hepatic failure & marrow suppression	
phenobarbital	sedation (adults), hyperactivity (children), ataxia, cognitive effects, behavior problems	SJS, connective tissue disturbance, rash, rare marrow suppression, hepatitis	osteomalacia, connective tissue disorders, sexual dysfunction, folate deficiency
phenytoin (Dilantin)	ataxia, dizziness, sedation	SJS, rash, hepatitis, marrow suppression	osteomalacia, gingival hyperplasia, mild peripheral neuropathy, hirsutism, acne
primidone (Mysoline)	sedation (adults), hyperactivity (children), ataxia, cognitive effects	connective tissue disturbance, rash, hepatitis	osteomalacia, connective tissue disorders, sexual dysfunction, folate deficiency
topiramate (Topamax)	cognitive slowing, dizziness, fatigue, weight loss	paresthesias, sleepiness, glaucoma	renal stones
tigabine (Gabatril)	dizziness, somnolence, cognitive effects, tremor, aphasia, headache, depression, abdominal pain	absence status	
valproate/divalproex sodium (Depakote)	GI distress, alopecia, weight gain, tremor	encephalopathy, hepatic failure, thrombocytopenia, pancreatitis	polycystic ovaries; relative carnitine deficiency in children
oxcarbazepine (Trileptal)	Hyponatremia, sedation, dizziness	allergic reaction	
zonisamide (Zonegran)	sedation, dizziness, cognitive slowing, weight loss,	rare fever with hypohidrosis in children	renal stones
levetiracetam (Keppra)	mild sedation, dizziness, irritability	none	