Table 1. Adult Treatment Options for Selected Clinical Situations 14-25

Clinical Indication	ent Options for Selected Clinical Selected Selec	Comments
Status epilepticus	Fosphenytoin ^{a 14,17}	Diazepam or lorazepam should be used initially and
	Initial dose of 15-20 mg PE/kg IV	may be required during phenytoin load due to slow
	at a rate of 100-150 mg	rate of phenytoin administration. 15,17,18
	PE/minute, followed by 4-6 mg	, ,
	PE/kg daily	Administer phenytoin via a central line when
		possible. Dilution is not recommended due to
	Phenytoin ^{15,17,19}	increased risk of precipitation. Infusion rate should
	Initial dose of 15-20 mg/kg IV at	be decreased to 25 mg/minute in elderly patients
	a rate of ≤ 50 mg/minute	and patients with cardiovascular disease. 15,17
	followed by IV or oral	'
	maintenance doses of 100 mg	Valproate should not be used in patients with
	every 6-8 hours	underlying liver or metabolic disease 17,20
		, ,
	Levetiracetam ^{20,22}	No randomized controlled trials have evaluated the
	20-30 mg/kg IV (maximum of 3	use of levetiracetam in the treatment of status
	grams) given once at a rate of 5	epilepticus. However, levetiracetam was effective
	mg/kg/minute.	for this indication in a number of retrospective trials.
	19 20	The most common initial dose was 2000-3000
	Valproate ^{19,20}	mg/day administered over 15 minutes. ²¹ Mean IV or
	Initial dose of 15-45 mg/kg IV at	PO maintenance doses ranged from 1000 mg every
	a rate ≤ 6 mg/kg/minute followed	12 hours to 15 mg/kg every 12 hours. ^{22,23} Reduce
	by 1-4 mg/kg/hr titrated to	the dose of levetiracetam in patients with renal impairment. 17,19
	patient response	impairment.
	Phenobarbital ¹⁷⁻¹⁹	
	10-20 mg/kg IV at a rate ≤ 60	
	mg/minute followed by 1-3	
	mg/kg/day IV or PO in divided	
	doses (may necessitate	
	intubation)	
Seizure prophylaxis	Fosphenytoin ^{a 14,17}	Administer phenytoin via a central line when
	Initial dose of 10-20 mg PE/kg IV	possible. Dilution is not recommended due to
	or IM followed by 4-6 mg PE/kg	increased risk of precipitation. Infusion rate should
	IV or IM daily	be decreased to 25 mg/minute in elderly patients
	45 47	and patients with cardiovascular disease. 15,17
	Phenytoin ^{15,17}	
	100-200 mg parenterally every 4	Levetiracetam was effective in preventing seizures
	hours during surgery and the	following supratentorial neurosurgery in a
	immediate postoperative period	retrospective trial. Patients most commonly
	Lavatina actors 25	received 1000 mg daily (range of 500-3000 mg
	Levetiracetam ²⁵	daily; route not specified). ²⁴ Reduce the dose of
	Initial dose of 20 mg/kg IV over	levetiracetam in patients with renal impairment. 17,19
	60 minutes followed by 1000 mg IV every 12 hours for 7 days	
	following head trauma	

^aFosphenytoin injection is currently in short supply. ¹⁻⁷
^bPhenytoin injection is currently in short supply. ^{5,10,13}