

Mount Sinai Medical Center
STATUS EPILEPTICUS in ADULTS
TREATMENT PROTOCOL
2006

Time, minutes	Action
0-5	Diagnose; Give O ₂ ; ABC's; Obtain IV access; Begin EKG monitoring; Draw blood for Chem-7, Magnesium, Calcium, Phosphate, CBC, LFTs, AED levels, ABG; toxicology screen (urine and blood).
6-10	Thiamine 100 mg IV; 50 ml of D50 IV unless adequate glucose known. Lorazepam. Begin with 4 mg IV over 2 mins; if still seizing, repeat X 1 in 5 mins (for a total of 0.1 mg/kg). Monitor blood pressure during administration If no rapid IV access give diazepam 20 mg PR or midazolam 10 mg intranasally, buccally or IM*.
10-20	If seizures persist, begin fosphenytoin 20 mg/kg IV at 150 mg/min, with blood pressure and EKG monitoring.
20-60	If seizures persist, give one of the following 4 options* (intubation necessary except for valproate): IV valproate: 40 mg/kg over ~10 minutes. If still seizing, additional 20 mg/kg over ~5 minutes. If still seizing, proceed to c IV midazolam or propofol. OR cIV midazolam: Load: 0.2 mg/kg; repeat 0.2-0.4 mg/kg boluses every 5 minutes until seizures stop, up to a maximum total loading dose of 2 mg/kg. Initial cIV rate: 0.1 mg/kg/hr. cIV dose range: 0.05 – 2 mg/kg/hr (up to 140 mg/hour for 70 kg person). If still seizing, proceed to cIV propofol or pentobarbital. OR cIV propofol: Load: 1 mg/kg; repeat 1-2 mg/kg boluses every 3-5 minutes until seizures stop, up to maximum total loading dose of 10 mg/kg. Initial cIV rate: 2 mg/kg/h. cIV dose range: 1-15 mg/kg/hr. If still seizing, proceed to cIV midazolam or pentobarbital. OR IV phenobarbital: 20 mg/kg IV at 50-100 mg/min. If still seizing, proceed to cIV midazolam, propofol, or pentobarbital. * Preferred order of adding medications as listed (i.e. IV valproate, then midazolam etc.)
>60 minutes	cIV Pentobarbital. Load: 5-10 mg/kg at up to 50 mg/min; repeat 5 mg/kg boluses until seizures stop. Initial cIV rate: 1 mg/kg/hr. cIV-dose range: 0.5-10 mg/kg/hr; traditionally titrated to suppression-burst on EEG. Begin continuous EEG monitoring ASAP if patient does not rapidly awaken, or if any cIV treatment is used.

CIV = continuous intravenous; ABC's = stabilize airway, breathing and circulation; ASAP = as soon as possible.

*The IV solution of diazepam can be given rectally if Diastat is not available; the IV solution of midazolam can be given by any of these routes.