

CHAM Generalized Convulsive Status Epilepticus Protocol

1. Stabilize patient (airway, breathing, circulation).
2. Place patient on a monitor.
3. Monitor vital signs.
4. Apply supplemental oxygen.
5. Collect finger glucose* stick.
6. Attempt IV / IO access.
7. Collect electrolytes, toxicology screen and anticonvulsant drug levels, if applicable.
8. *If glucose < 40 mg/dl, give 5 ml/kg of D10W IV.

New Onset Status Epilepticus
Arrival to ED/Unit
Zero minutes

New Onset Status Epilepticus
5-25 minutes

Established Status Epilepticus
25-50 minutes
Notify Neurology

Refractory Status Epilepticus
50-60 minutes
Notify PCCU

Refractory Status Epilepticus
>60 minutes

Age ≤ 2 months

Age > 2 months

Phenobarbital 20 mg/kg (IV or IO) over 20 minutes

No IV access: May give Midazolam 0.2 mg/kg IM. May repeat once for persistent seizures for 5 minutes

Give Lorazepam OR Diazepam 0.1 mg/kg IV (max dose 4 mg)

No IV access: May give Midazolam 0.1 mg/kg IM, or Diazepam PR (max 6-10 mg)
Diazepam PR dosing
3 mos – 5 years: 0.6 mg/kg PR;
6-11 years: 0.3 mg/kg PR;
>12 years: 0.2 mg/kg PR

Repeat previous medication once if seizures persist for 5 minutes

Phenobarbital 10 mg/kg (IV or IO) over 10 minutes

Fosphenytoin 20 mg PE/kg (IV or IO) at a max rate of 3 mg PE/kg/min over 20 minutes

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Valproic acid 40 mg/kg (IV or IO) (max dose 3000 mg/dose)

Levetiracetam 60 mg/kg (IV or IO) (max 4500 mg/dose)

For patients under 5 yrs old, consider Phenobarbital 20 mg/kg (IV or IO)

Fosphenytoin 20 mg/kg (IV or IO) over 20 minutes. Watch for signs of respiratory depression

Midazolam 0.2 mg/kg IV bolus, followed by 0.1 mg/kg/hr infusion. Titrate up to 2 mg/kg/hr for adequate seizure control

Fosphenytoin 20 mg/kg (IV or IO) over 20 minutes. Watch for signs of respiratory depression

Consider continuous infusion of Midazolam or Pentobarbital. Watch for signs of respiratory depression

May give additional second line medication (Fosphenytoin, Valproic acid, Levetiracetam or Phenobarbital). Choose a drug not already given

Pyridoxine 200 mg IVP just prior to administration of third antiepileptic drug

Midazolam 0.2 mg/kg IV bolus, followed by 0.1 mg/kg/hr infusion. Titrate up to 2 mg/kg/hr for adequate seizure control

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Pentobarbital 5 mg/kg IV bolus, followed by 1 mg/kg/hr infusion