Status Epilepticus

UC Emergency Med Quality Comm.

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Concern for Status Epilepticus

Initial Assessment	Initial lab testing as indicated
ABC O_2 IV access telemetry & oximetry POC glucose	CBC, BMP, LFT's, EKG, AED level, lactate, VBG, UDS

Continued seizures?

3-10 minutes

Administer: 1st Line (within 5min)

- IV Lorazepam 0.1 mg/kg/dose; max 4 mg/dose - May repeat once after 3-5 minutes

If no IV access, choose one of the following and give as a single dose:

- IM Midazolam 10mg for >40 kg; 5mg for 13-40 kg
- Rectal Diazepam 0.2-0.5 mg/kg/dose; max 20 mg/dose

Continued seizures?

10-40 minutes

Administer: 2nd Line (within 10-15min)

- IV Levetiracetam 60mg/kg, max 4500mg
- IV Valproate 40mg/kg, max 3000mg
- IV Fosphenytoin 20mg PE/kg, max 2000mg

Continued seizures?

40-60 minutes

Secure airway (as indicated or before 3rd line)

- Use short acting paralytic, if possible
- Suggested induction agents
  - Midazolam - 0.2mg/kg IV
  - Propofol - 1-2 mg/kg IV

Administer: 3rd Line

Continued therapy

- Midazolam (preferred) - bolus 0.2mg/kg over 1-2 minutes,
  repeat every 5 minutes until seizures stop (max total load of 2 mg/kg)
  Initial cIV Rate: 0.1 mg/kg/hr infusion.
  Will need to convert to mg/hr to program IV pump
- Propofol - load: 1-2 mg/kg IV over 1-2 min; repeat every 5 minutes until seizures stop (max total load of 10 mg/kg)
  Initial cIV Rate: 20 mcg/kg/min
  Range: 20-80 mcg/kg/min; re-bolus first, then ↑ by 10 mcg/kg/min

Order STAT EEG
Consult neurocritical care
Order CT Head

Continued seizures?

> 60 minutes

Administer: 4th Line

Ketamine:
-Load: 1.5mg/kg IV; repeat q5min PRN; max 5 mg/kg
-Initial cIV Rate: 7.5mcg/kg/min
-Range: 7.5-100 mcg/kg/min (re-bolus, then↑)

Pentobarbital:
-Load: 5 mg/kg IV with rate up to 50 mg/min;repeat q15-30min PRN; max 20 mg/kg
-Initial cIV Rate: 1mg/kg/hr
-Range: 1-10 mg/kg/hr (re-bolus, then ↑)

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