

# Status Epilepticus Algorithm

## Pre-Arrival

Prepare equipment:

- Non-rebreather, BVM
- Suction, oral/nasal airway, pulse ox
- IV, mucosal atomizer, IO, iStat and Dstix
- Medications

Ongoing seizure > 5 minutes

Recurrent seizure without return to baseline mental status

5 min                      10 min                      20 min                      30 min

Seizure	Status Epilepticus	Early Refractory SE	Refractory SE	Established SE
<p><b>Anti-epileptics</b>  <u>Lorazepam (Ativan)</u> OR                      0.1 mg/kg IV/IM (max 4mg)  <u>Midazolam (Versed)</u> OR                      0.1 mg/kg IV (max 4mg)                      0.2 mg/kg IN                      13-40kg:5mg IM, &gt;40kg:10mg  <u>Diazepam (Valium)</u>                      2-5yo 0.5 mg/kg PR                      6-11yo 0.3 mg/kg PR                      ≥12yo 0.2 mg/kg PR (max 20)  <b>Diagnostics / Therapeutics</b>                      Airway, oxygen, pulse ox                      Glucose, iStat (Na, Ca)                      Tx hypertension, fever                      IV access (or IO)</p>	<p><b>Anti-epileptics</b>  <u>Repeat benzodiazepine</u>                      q 5min up to 2 more doses  <u>Fosphenytoin</u> OR                      20-30 mg/kg PE (max 1gm) IV                      (150mg/min)  <u>Phenytoin</u> 20-30mg/kg (max                      1 gm) IV (50mg/min)  <b>Diagnostics / Therapeutics</b>                      Consider ingestions (INH,                      TCA, ETOH)                      Chem panel incl Mg, PO4                      Anti-epileptic drug levels                      CBC, LFTs, coags, Utox, ICON                      Consider neurology consult</p>	<p><b>Anti-epileptics</b>  <u>Levetiracetam (Keppra)</u>                      20-40 mg/kg (max 3gm) IV at                      5mg/kg/min  <u>Valproate</u>                      20-40 mg/kg IV at                      5mg/kg/min (avoid in                      patients with liver disease,                      thrombocytopenia, metabolic                      disorder)  <b>Diagnostics / Therapeutics</b>                      Consider head CT                      Consider lumbar puncture                      EKG                      Neurology consult</p>	<p><b>Anti-epileptics</b>  <u>Phenobarbital</u>                      20-40 mg/kg IV at                      2mg/kg/min  <u>Consider empiric pyridoxine</u>                      If &lt; 2yo, 100mg IV  <u>Consider empiric thiamine &amp;                      glucose</u>                      If suspect ETOH abuse,                      thiamine 100mg IV  <b>Diagnostics / Therapeutics</b>                      Prepare to intubate                      Admit PICU                      Consider central line                      Arrange continuous EEG</p>	<p><b>Coma induction</b>  <u>Midazolam</u>                      0.2 mg/kg (max 10mg) IV                      then infusion 0.1 mg/kg/hr  <u>Pentobarbital</u>                      5 mg/kg IV then infusion                      0.5mg/kg/hr  <b>Add-on options</b>  <u>Ketamine</u> 1.5 mg/kg IV, then                      infusion at 1 mg/kg/hr  <u>Propofol</u> 2 mg/kg IV, then                      infusion <i>in adults only</i>                      1 mg/kg/hr, titrate up to                      effect*  <u>General anesthesia</u></p>