Pediatric and Adult Prehospital Seizure Protocol

Inclusion Criteria: All seizure types regardless of temperature

Abbreviations
ALS-Advanced Life Support
BLS-Basic Life Support
IM-Intramuscular
IN-Intranasal
IO-Intraosseous
IV-Intravenous

Begin

Actively seizing patient defined as loss of consciousness or awareness associated with involuntary extremity (generalized or focal) stiffening or limp tone; and/or involuntary eye deviation, staring, or lip smacking

- Ensure scene safety
- Apply 100% non-rebreather oxygen at 10-15 L/minute
- Initiate bag-mask ventilation for apnea or ongoing hypoxia
- Estimate pediatric patient's weight using a length-based tape or other EMS agency approved method

Is there an ALS Provider on-scene?

- No → Is there a BLS Provider on-scene?
  - No → OFF Algorithm
  - Yes →
    - Place on monitors, including cardiac monitor, pulse oximetry, and end tidal waveform capnography, if available and within scope of practice
    - Call for Advanced Life Support to meet en route, if feasible
    - Check vital signs, including blood glucose
    - If temperature is ≥101°F (38.3°C), it is OK to give rectal Acetaminophen if present in the EMS agency formulary and remove excessive clothing.
    - Do NOT actively cool.
    - → Transport to the hospital
- Yes →
  - Give 0.2 mg/kg IM or IN Midazolam (5 mg/mL concentration), maximum dose =10mg
  - Do NOT place an IV/IO now
  - Do NOT check blood glucose now
  - Place on monitors, including cardiac monitor, pulse oximetry, and end tidal waveform capnography
  - → Did the seizure stop?
    - Yes → Transport to the hospital
    - No → Check a blood glucose
      - → Is the blood glucose >60 mg/dL?
        - Yes → Repeat Midazolam dose as noted above if seizure continues 5 minutes after last dose given → Transport to the hospital
        - No → Give 25% Dextrose, 2 mL/kg (IV/IO) or IM Glucagon, based on EMS agency formulary
          - →
            - Call on-line medical director if seizure is ongoing
            - Check vital signs
            - If temperature is ≥101°F (38.3°C), give rectal Acetaminophen if on EMS agency formulary
            - Remove excessive clothing
            - Do NOT actively cool
            - → Transport to the hospital

Clinical standards are developed for 80% of the patient population with a particular disease. Each practitioner must use his/her clinical judgment in the management of any specific patient.

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