Seizures

For patients ≤ 14 years of age refer to **Pediatric Seizure-Treatment Protocol**

1. Follow **General Pre-hospital Care-Treatment Protocol**.
2. IF PATIENT IS ACTIVELY SEIZING:
   - A. Protect patient from injury.
   - B. Do not force anything between teeth.
   - C. Pregnant women 20 weeks gestation up to 6 weeks post birth WITHOUT a seizure disorder history, treat as eclampsia, see **magnesium sulfate** administration below (C.)
   - D. Administer **midazolam** 10 mg IM prior to IV start
3. Check blood glucose (may be MFR skill, see **Blood Glucose Testing-Procedure Protocol**),
   - A. If blood glucose is found to be less than 60 mg/dL or hypoglycemia is suspected administer **dextrose** 25 gm IV per **Dextrose-Medication Protocol**
   - B. If no IV access, per MCA selection, administer **glucagon** 1 mg IM or 3 mg IN (if available per MCA selection), (may be EMT skill per MCA selection).

Glucagon administration per MCA Selection
☐ Not included

	1 mg **glucagon** IM *Injectable formulation ONLY*	3 mg **glucagon** IN *Intranasal formulation ONLY*
EMT	☐	☐
Specialist	☐	☐
Paramedic	☑	☐

*INTRANASAL GLUCAGON ADMINISTRATION: Only glucagon that is FDA-approved for nasal administration (e.g., Baqsimi(R)) may be given by IN route. Injectable glucagon is not to be administered via IN route. EMS clinicians may assist family/patient care givers in administering glucagon that is FDA-approved for IN use, if prescribed for the patient (regardless of age).

If patient is pregnant (eclampsia)
- a. Administer **magnesium sulfate** 4 gm over 10 minutes IV/IO until seizure stops. Administration of **magnesium sulfate** is best accomplished by adding **magnesium sulfate** 4 gm to 100 or 250 ml of **NS** and infusing over approximately 10 minutes.
- b. If eclamptic seizure does not stop after magnesium, then administer benzodiazepine as specified below.
- C. If IV already established and **midazolam** IM/IN has not been administered, administer **midazolam** 5 mg IV/IO

D. If seizures persist
   a. Repeat **midazolam** 5mg IV/IO/IM/IN
   b. Contact Medical Control

4. IF PATIENT IS NOT ACTIVELY SEIZING and has/is:
   A. Altered level of consciousness, refer to **Altered Mental Status-Treatment Protocol.**
   B. Alert
      a. Monitor for changes.
      b. Obtain vascular access.
      c. Check blood glucose (may be MFR skill, see **Blood Glucose Testing-Procedure Protocol**),

Medication Protocols
Dextrose
Glucagon
Magnesium Sulfate
Midazolam

Protocol Source/References: NAEMSO Clinical Guidelines