

Michigan ADULT TREATMENT SEIZURES

Initial Date: 11/15/2012

Revised Date: 02/25/2025 05/26/2023

Section 3-4

Seizures

For patients $\leq$ 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	3 mg Glucagon IN <i>*IN Formulary ONLY*</i>
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).

- C. 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.

MCA Name: 

MCA Board Approval Date:

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- D. If IV already established and **midazolam** IM/IN has not been administered, administer **midazolam** 5 mg IV/IO
-  E. 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

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