












**Oakland County Medical Control Authority**  
**ADULT TREATMENT**  
**SEIZURES**

Initial Date: 8/31/2023  
Revised Date:

Section 3-4

## Seizures

For patients  $\leq$  14 years of age refer to **4.7 Pediatric Seizure-Treatment Protocol**

1. Follow **1.1 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.
  -  D. Administer **midazolam** 10 mg IM prior to IV start
-  3. Check blood glucose (may be MFR skill, see **7.21 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 **1.100 Diabetic Emergencies**.
  -  B. 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 **3.1 Altered Mental Status-Treatment Protocol**.
  - B. Alert
    - a. Monitor for changes.
    -  b. Obtain vascular access see **7.23 Vascular Access & IV Fluid Therapy**.
    -  c. Check blood glucose (may be MFR skill, see **7.21 Blood Glucose Testing-Procedure Protocol**),

### Medication References

Dextrose  
Glucagon  
Magnesium Sulfate  
Midazolam

Protocol Source/References: NAEMSO Clinical Guidelines



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Protocol Source/Reference: Michigan 3.4 Seizures; Version 5/26/23.