

	<b>COUNTY OF SACRAMENTO</b> EMERGENCY MEDICAL SERVICES AGENCY	Document #	8003.03
	PROGRAM DOCUMENT:	Initial Date:	04/19/21
	<b>Seizures</b>	Last Approved Date:	06/22/23
		Effective Date:	11/01/25
		Next Review Date:	06/01/25

Signature on File

EMS Medical Director

Signature on File

EMS Administrator

**Purpose:**

- A. To establish treatment standards for patients exhibiting signs and symptoms of seizure.

**Authority:**

- A. California Health and Safety Code, Division 2.5  
B. California Code of Regulations, Title 22, Division 9

**Protocol:**

**A. For any Altered Level of Consciousness (ALOC), consider AEIOUTIPS:**

Alcohol	Trauma
Epilepsy	Infection
Insulin	Psychiatric
Overdose	Stroke or Cardiovascular
Uremia	

**B. Seizures:**

1. Active Seizures.
2. Focal Seizures with respiratory compromise.
3. Recurrent seizures without lucid interval.

<b>BLS</b>
<ol style="list-style-type: none"> <li>1. Supplemental O<sub>2</sub> as necessary to maintain SpO<sub>2</sub> ≥ 94%. Use the lowest concentration and flow rate of O<sub>2</sub> possible.</li> <li>2. Airway adjuncts as needed.</li> <li>3. Perform blood sugar determination. Refer to PD# 8002 – Diabetic Emergencies</li> <li>4. If the patient is seizing, protect the patient from further injury.</li> <li>5. Transport.</li> </ol>
<b>ALS</b>
<ol style="list-style-type: none"> <li>1. Supplemental O<sub>2</sub> as necessary to maintain SpO<sub>2</sub> ≥ 94%. Use the lowest concentration and flow rate of O<sub>2</sub> possible.</li> <li>2. Airway adjuncts as needed.</li> <li>3. Initiate vascular access.</li> <li>4. Perform blood sugar determination. refer to PD# 8002 – Diabetic Emergencies.</li> <li>5. Midazolam: <ul style="list-style-type: none"> <li>• 0.1mg/Kg in 2 mg increments slow IV push or IN-titrate to seizure control (max dose 6 mg).</li> <li>• If IV or IN is not available, Midazolam may be given IM - 0.1 mg/Kg (max dose 6 mg)</li> </ul> </li> </ol>

in a single IM injection (may be split into 2 sites if sufficient muscle mass is not present for a single injection site).

6. \*\*Diazepam:

- May substitute Diazepam when there is a recognized pervasive shortage of Midazolam. 5-10 mg IVP to control seizures. If no IV access, 10 mg IM. May repeat once. Max dose 20 mg.

7. If known or suspected pregnancy OR if possible pregnancy within the last 6 weeks. Administer magnesium even if seizure has resolved.

- Magnesium Sulfate:
  - 10g IM (5 g in each buttock) OR 6g IV/IO
- \* No repeat magnesium dosing without base hospital consultation.

8. Cardiac Monitoring.

\*Intranasal medications are to be delivered through an atomization device with one-half the indicated dose administered in each nostril.

\*\*Diazepam may only be used when Midazolam is not available or when using Diazepam from CHEMPACK supplies.

**Cross Reference:** PD# 2032 – Controlled Substance  
PD# 8002 – Diabetic Emergencies