	COUNTY OF SACRAMENTO EMERGENCY MEDICAL SERVICES AGENCY	Document #	9008.02
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	Pediatric Seizures	Last Approved Date:	09/14/23
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Signature on File

EMS Medical Director

Signature on File

EMS Administrator

Purpose:

A. To establish treatment standards for pediatric patients exhibiting signs and symptoms of active seizures, focal seizures with respiratory compromise, or recurrent seizures without lucid interval.

Authority:

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

Protocol:

- A. The ability to maintain temperature in prehospital settings in pediatric patients is a significant problem with a dose-dependent increase in mortality for temperatures below 37°C or 98.6°F. Simple interventions to prevent hypothermia can reduce mortality. During transport, warm and maintain normal temperature, being careful to avoid hyperthermia.
- B. Perform blood glucose determination.
- C. For any Altered Level of Consciousness (ALOC), consider AEIOUTIPS:

Alcohol	Trauma
Epilepsy	Infection
Insulin	Psychiatric
Overdose Uremia	Stroke or Cardiovascular

BLS

- 1. Supplemental O_2 as necessary to maintain $SpO_2 \ge 94\%$. Use the lowest concentration and flow rate of O_2 as possible.
- 2. Airway adjuncts as needed.
- 3. Apply spinal motion restriction when indicated per PD# 8044.
- 4. Protect the patient from further injury.
- 5. Check temperature and begin cooling measures if fever is the cause of the seizure.
- 6. Transport.

ALS

- 1. Airway adjuncts as needed.
- 2. If blood sugar ≤ 60 mg/dl, treat per PD# 9007 Pediatric Diabetic Emergencies.
- 3. If seizure activity has stopped and the level of consciousness is improving or remaining constant: continue transport.
- 4. Continuous Seizure: Midazolam (IN/IM preferred route):
 - IM 0.1 mg/kg (max dose 4 mg) OR
 - IN 0.2 mg/kg (max dose 6.0 mg)
 - IV 0.1 mg/Kg (max dose 4 mg) slow IV push in 1 2 mg increments, titrate to seizure control.
- 6. Cardiac Monitoring.
- 7. If seizures are continuing, initiate vascular access with NS, and titrate to a minimal SBP for the patient's age.

NOTES:

- 1. **May substitute Diazepam when there is a recognized pervasive shortage of Midazolam.
 - Diazepam 0.1mg/kg IV/IO to control seizures.
 - If no IV access is available:
 - Diazepam 0.1mg/kg IM. May repeat once. Max dose 5 mg.
- 2. Many seizures are self-limited with a resolution before medication administration. Administration of Midazolam should only be used for continuous seizing and:
 - History of non-febrile seizures, or
 - Respiratory compromise, or
 - Emesis
- 3. Base Hospital Order: any other indication of seizure activity requiring medication administration.

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

Cross Reference:	PD# 2032 – Controlled Substance
	PD# 8044 – Spinal Motion Restrictions (SMR)
	PD# 9017 – Pediatric Trauma
	PD# 9007 – Pediatric Diabetic Emergencies