## COASTAL VALLEYS EMS AGENCY



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Policy Number: 7306
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Approved: Bryan Cleaver, EMS Administrator Mark Luoto, EMS Medical Director

Authority: California Health and Safety Code, Division 2.5 EMS, Sections 1797.220 & 1797.221

I. Definition

A. Abnormal glucose levels in patients with known or suspected diabetes.

## Basic Life Support

- A. Provide General Medical Care.
- B. For suspected narcotic overdose refer to treatment guideline 7203 Poisoning/Overdose.
- C. For suspected stroke, refer to treatment guideline 7401 Acute Cerebrovascular Accident (Stroke).
- D. Check blood glucose:
  - 1. If BG < 50 mg/dL to 80 mg dL and patient is alert and able to self-administer:
    - a. Administer oral glucose paste or solution.
    - b. Use caution when administering oral glucose in patients with a BG < 50 mg/dL.
    - c. Recheck blood glucose until symptoms resolve or a normal reading is achieved.

## III. Advanced Life Support

Adult Pediatric (less than 14 years of age)

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- A. If BG < 50 mg/dL to 80 mg/dL and patient has an altered mental status and unable to self-administer oral glucose:
  - Administer Dextrose 25 G IV infusion (D10) or IVP (D50). Titrate to achieve normal mental status. D10 is preferred over D50.
    - May repeat once if BG remains below 60 mg/dL and symptoms persist.
  - 2. If unable to establish IV, administer Glucagon 1 mg IM.
    - a. Do not repeat.
- B. If patient is hyperglycemic and symptomatic:
  - 1. Administer NS fluid bolus 10 ml/kg IV.
    - a. May repeat as indicated.
    - b. Max total volume 1 L.
    - c. Reassess vital signs every 250 ml to ensure lung sounds remain clear.
- C. If seizures occur refer to *treatment guideline 7402* Seizures.

- A. If BG < 50 mg/dL to 80 mg/dL and patient has an altered mental status and unable to self-administer oral glucose:
  - 1. Administer 10% Dextrose IV per pediatric medication administration guide.
  - 2. May repeat once if BG remains below 60 mg/dL and symptoms persist.
  - 3. If unable to establish IV, administer Glucagon per pediatric medication administration guide.
    - a. Do not repeat.
- B. If BG > 300 mg/dL:
  - 1. Administer NS fluid bolus 20 ml/kg IV.
    - a. Do not repeat.

V. Special Considerations

- A. If Glasgow Coma Scale < 15 and etiology unclear, consider AEIOU TIPS.
- B. 10% Dextrose is the preferred concentration for use. 50% Dextrose optional.
- C. BG may require 15 minutes or more to show improvements after Glucagon administration.
- D. Type I Diabetics who present with signs of DKA (tachypnea, ETCO<sub>2</sub> less than 25 mmHg) may require more than 1 L NS for prolonged transports. Base Hospital consultation is advised if administering greater than 1 L NS.

V.		Base Orders
A.	None.	
VI.		Contraindications
A. NS fluid bolus is contraindicated in patients with a history of CHF or renal failure.		
VII.		Cross Reference
A.	General Medical Care	Policy No. 7001
B.	Seizures	Policy No. 7402
C.	Acute Cerebrovascular Accident (Stroke)	Policy No. 7401
D.	Poisoning/Overdose	Policy No. 7203