

Subject: Hypoglycemia/Hyperglycemia Treatment Policy

I. Definition	
A. Abnormal glucose levels in patients with known or suspected diabetes.	
II. Basic Life Support	
A. Provide General Medical Care. B. For suspected narcotic overdose refer to <i>treatment guideline Draft Poisoning/Overdose</i> . C. For suspected stroke, refer to <i>treatment guideline Draft Acute Cerebrovascular Accident (Stroke)</i> . D. Check blood glucose: (EMT and Paramedic ONLY) <ol style="list-style-type: none"> 1. If BG < 50 mg/dL to 80 mg dL and patient is alert and able to self-administer: <ol style="list-style-type: none"> 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)
A. If BG < 50 mg/dL to 80 mg/dL and patient has an altered mental status and unable to self-administer oral glucose: <ol style="list-style-type: none"> 1. Administer Dextrose 25 G IV infusion (D10) or IVP (D50). Titrate to achieve normal mental status. D10 is preferred over D50. <ol style="list-style-type: none"> a. May repeat once if BG remains below 60 mg/dL and symptoms persist. 2. If unable to establish IV, administer Glucagon 1 mg IM. <ol style="list-style-type: none"> a. Do not repeat. B. If BG > 400 mg/dL: <ol style="list-style-type: none"> 1. Administer NS fluid bolus 10 ml/kg IV. <ol style="list-style-type: none"> 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 <i>treatment guideline Draft Seizures</i> .	A. If BG < 50 mg/dL to 80 mg/dL and patient has an altered mental status and unable to self-administer oral glucose: <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Do not repeat. B. If BG > 300 mg/dL: <ol style="list-style-type: none"> 1. Administer NS fluid bolus 20 ml/kg IV. <ol style="list-style-type: none"> a. Do not repeat.
IV. Special Considerations	
A. If Glasgow Coma Scale < 15 and etiology unclear, consider AEIOU TIPS. B. 10% Dextrose is the preferred concentration for use. C. BG may require 15 minutes or more to show improvements after Glucagon administration.	
V. Base Orders	
A. None.	
VI. Contraindications	
A. NS fluid bolus is contraindicated in patients with a history of CHF or renal failure.	
VII. Associated Policies	
A. General Medical Care	Policy No.

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| B. Seizures | Policy No. |
| C. Acute Cerebrovascular Accident
(Stroke) | Policy No. |
| D. Poisoning/Overdose | Policy No. |
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