**H10. Dextrose**

**Class and Action:** Carbohydrate, hypertonic solution; the principle form of the carbohydrate used by the body

<table>
<thead>
<tr>
<th>Indications:</th>
<th>Hypoglycemia, altered level of consciousness of unknown etiology.</th>
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<td>Contraindications:</td>
<td>Intracranial hemorrhage, increased intracranial pressure, known or suspected CVA in absence of hypoglycemia</td>
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</table>

**Side Effects:** Warm, burning sensation at injection site, hyperglycemia, thrombophlebitis, necrosis at injection site if infiltration.

**Drug Interactions:** None significant

**Onset, Duration, and Routes:** Onset is within 2-10 minutes with a duration that varies. Routes of administration are IV or IO

**Adult Dose:**
- D50 give 25-50 mL or
- D10 give 150-250 mL
- Can repeat either one once

**Pediatric Dose:**
- D25 give 2-4 mL/kg or
- D10 give 5-10 mL/kg
- Can be repeated once
- Glucose 0.5-1.0 grams/kg - Max 25 grams

**WDM EMS Protocols:**
C6. Blood Glucose Abnormalities

**Special Considerations:**
- Make sure IV site is patent, infiltration of IV into tissue is necrotic for tissue.
- D12.5 = 12.5 ml D50 + 37.5 ml Normal Saline
- D25 = 25 ml D50 + 25 ml Normal saline

Protocol: H10. Dextrose
Date of Most Recent Update: 6/2020