

## DEXTROSE 25%

**Classification:**       Hyperglycemic Agent

**Action:**               Increases blood sugar

**Indications:**

1. Blood glucose level < 60mg/dl with:
  - a. Altered LOC
  - b. Apnea / agonal respirations
  - c. Non-traumatic focal neurological changes
  - d. Seizures

**Contraindications:**   **For patients with the signs or symptoms of a CVA, do not administer dextrose unless the Glucoscan/glucose test strip reading is < 60 mg/dl. If equipment is not available to test the blood glucose level, base physician approval must precede any administration of dextrose.**

**Adverse Effects:**       **Metabolic**  
Pain/burning at injection site  
Tissue necrosis  
Hyperkalemia

**Preparation:**

1. Use a 250 ml bag NS
2. Remove and discard 200 ml of NS
3. Add 50 ml of Dextrose 50%
4. Verify total volume of 100 ml of Dextrose 25%
5. This concentration is now approximately ~~0.5 Gm/ml~~  
0.25 Gm/ml [Updated 12/18/07]

**Administration:**       **PEDIATRIC DOSE (< 34 KG)**  
0.5 Gm/kg (~~2-4 ml/kg~~) (2 ml/kg) [Updated 12/18/07] slow IVP over 5 minutes

**Onset:**                Immediate

**Duration:**            Brief

**Notes:**

- Dextrose 25% in water is a concentrated solution and is very irritating to the venous tissue. Cannulate as large a vein as possible and aspirate prior to administration.