

## **Dextrose**

### **Protocols:**

1. Adult and Pediatric Seizures
2. Adult and Pediatric Altered Mental Status

### **Indications:**

1. Hypoglycemia
2. Altered mental status in the absence of a glucometer

### **Contraindications:**

None

### **Concentration:**

1. Dextrose 10% 25 gm in 250 ml
2. Dextrose 12.5% (for patients up to 2 months of age)
  - a. Created by expelling 37.5 ml from Dextrose 50% 50 ml syringe and drawing up 37.5 ml of NS
  - b. Creates 6.25 gm/ 50 ml concentration of 12.5%
3. Dextrose 25% (for patients between 2 months and 6 years of age)
  - a. Created by expelling 25 ml from Dextrose 50% 50 ml syringe and drawing up 25 ml of NS
  - b. Creates 12.5 gm/50 ml concentration of 25%
4. Dextrose 50% (prefilled syringe of 25 gm in 50 ml)

### **Dosing (ensure patent IV):**



1. Pediatric (weight based)
  - a. 3-5 kg, Dextrose 12.5%, dose: 2.5g, Volume: 20mL or Dextrose 10%, 25 ml
  - b. 6-7 kg, Dextrose 25%, dose: 3.25g, volume 13 mL or Dextrose 10%, 33 ml
  - c. 8-9 kg, Dextrose 25%, dose: 4.25g, volume 17 mL or Dextrose 10%, 43 ml
  - d. 10-11 kg, Dextrose 25%, dose: 5g, volume 20 mL or Dextrose 10%, 50 ml
  - e. 12-14 kg, Dextrose 25%, dose 6.25g, volume 25 mL or Dextrose 10%, 63 ml
  - f. 15-18 kg, Dextrose 25%, dose 8 g, volume 32 mL or Dextrose 10%, 80ml
  - g. 19-23 kg, Dextrose 25%, dose 10g, volume 40 mL or Dextrose 10%, 100 ml
  - h. 24-29 kg, Dextrose 50%, dose 12.5g, volume 25 mL or Dextrose 10%, 125 ml
  - i. 30-36 kg, Dextrose 50%, dose 15g, volume 30 mL or Dextrose 10%, 150 ml
2. Adult
  - a. Dextrose 50%, 25 gm, 50 ml
  - b. Dextrose 10%, 25 gm, 250 ml

### **Incompatibilities/Drug Interactions:**

1. Sodium bicarbonate
2. Diazepam will precipitate if given concurrently without flushing