

Subject: ALS Medication – Paramedic
Dextrose 50% (D50) Protocol, Dextrose 10% (D10) Administration

- I. Class
Carbohydrate
- II. Indications
 - A. Suspected hypoglycemia with history of diabetes.
 - B. Altered level of consciousness in the adult patient with blood sugar less than 70 mg/dL.
 - C. Altered level of consciousness in the pediatric patient with blood glucose reading less than 60 mg/dL.
 - D. Altered level of consciousness in the neonate with blood glucose less than 50 mg/dL.
 - E. Status epilepticus with blood sugar less than 60 mg/dL.
- III. Therapeutic Effects
Restores blood sugar to normal.
- IV. Contraindications
 - A. Absolute
 - 1. Undiluted D50 can cause cardiac dysrhythmia or arrest in the Neonate.
 - B. Relative
 - 1. Rebound hypoglycemia.
- V. Administration and Dosage - **Dextrose 50% (D50)**
 - A. Adult
 - 1. 10 to 25 grams of dextrose (20 to 50 mL of 50% dextrose). Repeated doses and supportive treatment may be required in severe cases.
- VI. Administration and Dosage - **Dextrose 10% (D10)**
 - A. Adult
 - 1. 150ml drip ran wide open to effect.
 - 2. If blood sugar remains below 60mg/dL, repeat D10 100ml.
 - B. Pediatric
 - 1. 2 ml/kg (200mg/kg).
 - 2. Bolus slowly over one minute.
 - 3. Can be repeated if blood sugar remains less than 60.
 - C. Neonates less than 30 days of age
 - 1. 2ml/kg (200mg/kg).
 - 2. Administer at rate of 1ml per minute.
 - 3. Contact base hospital for additional dosing.
- VII. Special Information
 - A. Determine blood glucose level prior to administration of medication.
 - B. Recheck blood glucose level after medication administration and repeat after 20 minutes.
 - C. Patients taking only oral diabetic medications should be strongly encouraged to allow ambulance transport.

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- D. Recurrent hypoglycemia can be delayed for hours.
- E. Patients who meet criteria to refuse care should be encouraged to consume a meal with complex carbohydrates and protein immediately.
- F. Severe tissue necrosis if administered via infiltrated IV site.

VIII. Base Orders

Standing Order if no contraindications exist.