

**CLASS: A**

**PROTOCOL(S) USED IN:** Altered Mental Status, Hypoglycemia

**PHARMACOLOGY AND ACTIONS:**

- A. Glucose is used by the body as quick energy.
- B. Its use is regulated by insulin, which stimulates storage of glucose from the bloodstream lowering blood glucose levels.

**INDICATIONS:**

- A. Hypoglycemia

**SIDE EFFECTS AND NOTES:**

- A. Determine blood glucose level prior to administration.
- B. Extravasation of dextrose can cause necrosis of tissue.
- C. IV should be secured in a large vein and free return of blood into the syringe or tubing should be checked 2-3 times prior to and during administration
- D. Do not draw blood for glucose determination from site proximal to an IV containing glucose or dextrose.
- E. Recheck blood glucose level 5 minutes after administration.

**ADULT DOSING:**

Hypoglycemia/Altered mental status -

**Dextrose 10% IV/IO** titrate to effect (increased mental status/CBG) or **Dextrose 50%** (**Dilute during administration**) into large, secure vein if patient isn't able to tolerate oral glucose.

**PEDIATRIC DOSING –**

Hypoglycemia/Altered mental status - Repeat dose as needed.

- Infants < 10 kg (birth to 1 year) with CBG < 45 mg/dcl:
  - Start at **2.5 - 5 ml/kg of Dextrose 10% IV/IO** titrate to effect.
- Children 10 kg – 35kg with CBG < 60 mg/dcl:
  - Give **Dextrose 10% IV/IO** titrate to effect or **Dextrose 25% IV/IO** titrate to effect.