



El Dorado County Emergency Medical Services Agency

Quick Reference

Revised Date: July 1, 2020

Medication Profile

Dextrose 50%

(D50W, Glucose)

Class:

Carbohydrate, hypertonic solution

Action:

Six-carbon sugar molecule, which is the principal form of carbohydrate utilized by the body.
Elevates blood glucose level rapidly.

Onset: Immediate

Peak: Immediate

Duration: Varies

Adult Administration:

50mL (25grams) IV bolus. (Only used during Cardiac Arrest)

Pediatric Administration:

Neonatal (less than 1 month)

D10W 2mL/kg IV/IO May repeat every 5 minutes until BS is at normal limit

Dilute 5:1 with NS to make a 10% solution

Infant/child (greater than 1 month)

D25W 2 mL/kg IV/IO may repeat 5 minutes until BS is at normal limit

Dilute 50:50 with NS to make 25% solution

Indications:

Hypoglycemia

- Neonate less than 1 month
 - BS less than 50mg/dL
- Infant/child greater than 1 month
 - BS less than 60mg/dL
- Adult
 - BS less than 60mg/dL

Contraindications:

Hyperglycemia

Side Effects:

ENDO: Hyperglycemia

Pregnancy:

Category A

Notes:

- Effects may be delayed in elderly patients with poor circulation and those who have had prolonged hypoglycemia.