

DEXTROSE 10% (D₁₀W)

ACTION: Glucose Replacement/Nutrient

- Elevates blood glucose levels.

INDICATIONS:

- Blood glucose levels less than 60 mg/dl or high-index of suspicion of hypoglycemia.

CONTRAINDICATIONS:

- No major contraindications for administration.
- Dextrose containing fluids should be used cautiously in patients with suspected increased intracranial pressure.

POTENTIAL SIDE EFFECTS:

- Hyperglycemia.
- Tissue necrosis if extravasation occurs.

ADULT DOSE/ROUTE:

- ⇒ Up to 25 G of D₁₀W = Up to 250ml IV or IO bolus. May repeat q5min based on patient response (max dose 50 grams).
- ⇒ Obtain blood glucose reading PRIOR to administration of Dextrose.

PEDIATRIC DOSE/ROUTE:

- ⇒ **Neonates < 1 month: D10W**, 2 ml/kg IV/IO (0.2 g/kg)
- ⇒ **Children > 1 month: D10W**, 5 ml/kg IV/IO (0.5 g/kg, max 25 grams)

NOTES:

- Concentrated dextrose can have a sclerosing effect on veins. Make sure that IV sites are patent by aspirating blood before and during administration of dextrose. Use largest available vein.