

Dextrose (D₅₀W)

Generic Name: Dextrose (D₅₀W)
Trade Name:
Classification: carbohydrate, antihypoglycemic
Supplied: preload 25g/50 ml (D₅₀W)
Actions (Pharmacodynamics): <ul style="list-style-type: none"> • Rapidly metabolized calories given parenterally, which promotes glycogen stores and prevents ketosis in patients with inadequate oral intake
Indications: <ul style="list-style-type: none"> • Hypoglycemia • Coma of unknown origin (if unable to obtain blood glucose reading)
Contraindications: <ul style="list-style-type: none"> • Hyperglycemia
Dosage: Adult: 0.5 – 1.0 g/kg of D₅₀W slow IVP Second dose may be given if first dose ineffective *Note: Suspected head injury 12.5 g D ₅₀ W slow IVP *Note: Re-check chemstrip in opposite limb and assess patient Pediatric: 0.5-1.0 g/kg of D₂₅W (2-4 mls/kg) slow IVP
Route: Intravenous
Precautions: <ul style="list-style-type: none"> • Dextrose greater (>) than 5% is considered a hypertonic solution. It can be very irritating to the vein and could cause cerebral bleeding if not given slowly • Patients with increased intracranial pressure (give a half dose and reassess – Never withhold, if the patient's metabolic needs are deficient) • Ensure patency of IV – can cause tissue sloughing if interstitial • IV cathalon should be 18g minimum as solution is very viscous *Note: Dextrose: 50% = 0.50 g/ml 25% = 0.25 g/ml