



Pharmacologic properties:

Dextrose is a simple monosaccharide also known as glucose. It provides calories for metabolic needs, sparing body proteins and loss of electrolytes. Dextrose is a hypertonic solution that is readily excreted by the kidneys producing diuresis.

Indications:

- Hypoglycemia
 - Adult < 50 mg/dL (< 50 mg/dL if suspected stroke)
 - Pediatric < 50 mg/dL

Contraindications:

- Stroke or acute brain injury with glucose > 50 mg/dL

Precautions:

- May theoretically precipitate Wernicke-Korsakoff syndrome if given without thiamine in chronic alcohol dependence and malnutrition

Adverse reactions:

- Thrombosis, sclerosing if given in a peripheral vein
- Tissue irritation if infiltrates.
- Hyperglycemia
- Hypokalemia

Dosage and administration:

Adult

- 50ml of a 50% solution (25 grams) IV

Pediatric

- 0.5 - 1.0 grams/kg (2-4ml/kg) slow IV of a 25% solution