



**MEDICATION REFERENCE  
NOT FOR USE DURING PATIENT CARE  
Medications General**

Initial Date: 11/17/2023

Revised Date:

Section: MR11

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**Dextrose**

**Pharmacological Category:** Glucose-Elevating Agent

**Routes:** IV/IO

**Indications:**

1. Hypoglycemia
2. Altered mental status

**Precautions:**

1. Ensure patent line, extravasation may cause significant tissue damage.
2. Dextrose should be pushed slowly (e.g., over 1-2 minutes).

**Expected effects:**

1. Increased blood glucose level
2. Improvement in altered mental status.

**Notes:**

1. Instructions for diluting dextrose
  - a. To obtain dextrose 10%, discard 40 mL out of one amp of D50, then draw up 40 mL of NS into the D50 ampule.
  - b. To obtain dextrose 12.5%, discard 37.5 mL out of one amp of D50, then draw 37.5 mL of NS into the D50 ampule
  - c. To obtain dextrose 25%, discard 25 mL out of one amp of D50, then draw 25 mL of NS into the D50 ampule
2. May utilize 10% for all ages 5 mL/kg (0.5 gm/kg) up to 250 mL

**Dosing: ADULT ALTERED MENTAL STATUS**

Indication: Patient is demonstrating signs of hypoglycemia, blood glucose is < 60 mg/dL.

Adults administer:

1. Dextrose 25 gm IV, titrate to fully awake and oriented.

**Dosing: ADULT SEIZURES**

Indication: Seizure patient with blood glucose < 60 mg/dL

Adults administer:

1. Dextrose 25 gm IV

**Dosing: PEDIATRIC ALTERED MENTAL STATUS**

Indication: Patient is demonstrating signs of hypoglycemia and blood glucose as follows:

1. 2 months old or younger and blood glucose is <40 mg/dL
2. 3 months old or older and blood glucose is <60 mg/dL

Pediatrics administer:

1. Dextrose according to MI MEDIC cards
2. If MI MEDIC cards are not available use chart below:

**Dosing: PEDIATRIC SEIZURES**

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Indication: Pediatric seizure patient and blood glucose as follows:

1. 2 months old or younger and glucose is <40 mg/dL
2. 3 months old or older and glucose is <60 mg/dL

Pediatrics administer:

1. Dextrose according to MI MEDIC cards
2. If MI MEDIC cards are not available utilize the chart below.

**Dosing: PEDIATRIC CARDIAC ARREST**

Indication: Pediatric patients in cardiac arrest with a blood glucose is less than 60 mg/dL

Pediatrics administer:

1. Dextrose according to MI MEDIC cards
2. If MI MEDIC cards are not available utilize the chart below.
3. If chart is not available administer dextrose 0.5 g/kg

| Color  | Age          | Weight                | Dose   | Concentration  | Volume |        | Concentration | Volume |
|--------|--------------|-----------------------|--------|----------------|--------|--------|---------------|--------|
| Grey   | 0-2 months   | 3-5 kg (6-11 lbs.)    | 2.5g   | Dextrose 12.5% | 20 mL  | O<br>R | Dextrose 10%  | 25 mL  |
| Pink   | 3-6 months   | 6-7 kg (13-16 lbs.)   | 3.25 g | Dextrose 25%   | 13 mL  | O<br>R | Dextrose 10%  | 33 mL  |
| Red    | 7-10 months  | 8-9 kg (17-20 lbs.)   | 4.25 g | Dextrose 25%   | 17 mL  | O<br>R | Dextrose 10%  | 43 mL  |
| Purple | 11-18 months | 10-11 kg (21-25 lbs.) | 5g     | Dextrose 25%   | 20 mL  | O<br>R | Dextrose 10%  | 50 mL  |
| Yellow | 19-35 months | 12-14 kg (26-31 lbs.) | 6.25 g | Dextrose 25%   | 25 mL  | O<br>R | Dextrose 10%  | 63 mL  |
| White  | 3-4 years    | 15-18 kg (32-40 lbs.) | 8g     | Dextrose 25%   | 32 mL  | O<br>R | Dextrose 10%  | 80 mL  |
| Blue   | 5-6 years    | 19-23 kg (41-50 lbs.) | 10g    | Dextrose 25%   | 40 mL  | O<br>R | Dextrose 10%  | 100 mL |
| Orange | 7-9 years    | 24-29 kg (52-64 lbs.) | 12.5 g | Dextrose 50%   | 25 mL  | O<br>R | Dextrose 10%  | 125 mL |
| Green  | 10-14 Years  | 30-36 kg (65-79 lbs.) | 15g    | Dextrose 50%   | 40 mL  | O<br>R | Dextrose 10%  | 150 mL |



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Used in the Following Protocols

Altered Mental Status (Section 3 Adult Treatment)

Seizures (Section 3 Adult Treatment)

Pediatric Altered Mental Status (Section 4 Obstetrics and Pediatrics)

Pediatric Seizures (Section 4 Obstetrics and Pediatrics)

Pediatric Cardiac Arrest – General (Section 6 Pediatric Cardiac)