

Initial Date: 07/19/2023
Revised Date: 03/03/2025

Section: 9-25R

Glucagon

Pharmacological Category: Antidote; Hypoglycemia

Routes: IM – injectable formulation or IN – intranasal formulation

Indications:

1. Unable to obtain IV access and dextrose is indicated

Contraindications:

1. Adrenal gland tumor

Expected effects:

1. Increased blood glucose

Side effects:

1. Nausea
2. Vomiting

NOTE:

1. Use ONLY intranasal formulation for IN administration
2. Use ONLY injectable formulation for IM administration

Dosing: ADULT ALTERED MENTAL STATUS

Indication: Patient is demonstrating signs of hypoglycemia, blood glucose is < 60 mg/dL and unable to start IV.

Adults administer:

1. Glucagon 1 mg IM (injectable formulation) OR 3 mg IN (intranasal formulation)

Dosing: ADULT SEIZURE

Indication: Seizure patient with blood glucose < 60 mg/dL and unable to start IV.

Adults administer:

1. Glucagon 1 mg IM (injectable formulation) OR 3 mg IN (intranasal formulation)

Dosing: PEDS ALTERED MENTAL STATUS

Indication: Pediatric patient demonstrating signs of hypoglycemia, unable to start IV and blood glucose is <60 mg/dL

Pediatrics administer:

1. Glucagon according to MI MEDIC
2. If MI MEDIC is not available administer:
 - a. Pediatrics age 5 or greater:
 - i. Glucagon 1 mg IM (injectable formulation)
 - ii. Glucagon 3 mg IN (intranasal formulation)

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- b. Pediatrics less than age 5:
 - i. Glucagon 0.5 mg IM (injectable formulation)
 - ii. Glucagon IN DO NOT ADMINISTER

Dosing: PEDS SEIZURE

Indication: Pediatric seizure patient, unable to start IV, and blood glucose is <60 mg/dL:

Pediatrics administer:

- 1. Glucagon according to MI MEDIC
- 2. If MI MEDIC is not available administer:
 - a. Pediatrics age 5 or greater:
 - i. Glucagon 1 mg IM (injectable formulation)
 - ii. Glucagon 3 mg IN (intranasal formulation)
 - b. Pediatrics less than age 5:
 - i. Glucagon 0.5 mg IM (injectable formulation)
 - ii. Glucagon IN DO NOT ADMINISTER

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)