

Michigan
MEDICATION SECTION
GLUCAGON

Initial Date: 07/19/2023

Revised Date:

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. ~~2.~~ Use **ONLY** injectable formulation for IM administration

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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](#))
~~/IN~~

Dosing: PEDS ALTERED MENTAL STATUS

Indication: Pediatric patient demonstrating signs of hypoglycemia, unable to start IV and blood glucose is <60 mg/dL 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. Glucagon according to MI MEDIC ~~cards~~
2. If MI MEDIC ~~cards are~~ is not available administer:
 - a. Pediatrics age 5 or greater:

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- i. Glucagon 1 mg IM ~~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 ~~IM~~

Dosing: PEDS SEIZURE

Indication: Pediatric seizure patient, unable to start IV, and blood glucose is <60 mg/dL~~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. Glucagon according to MI MEDIC ~~cards~~
- 2. If MI MEDIC is ~~cards are~~ 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

- ~~a. Pediatrics age 5 or greater:~~
 - ~~i. Glucagon 1 mg IM/IN~~
- ~~b. Pediatrics less than age 5:~~
 - ~~i. Glucagon 0.5 mg IM/IN~~

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)