Initial Date: 07/19/2023
Revised Date:

Section: 9-25R

Glucagon

Pharmacological Category: Antidote; Hypoglycemia

Routes: IM/IN

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

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/IN

Dosing: ADULT SEIZURE
Indication: Seizure patient with blood glucose < 60 mg/dL and unable to start IV.
Adults administer:
    1. Glucagon 1 mg IM/IN

Dosing: PEDS ALTERED MENTAL STATUS
Indication: Pediatric patient demonstrating signs of hypoglycemia, unable to start IV 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. Glucagon according to MI MEDIC cards
    2. If MI MEDIC cards are not available 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

MDHHS | Bureau of Emergency Preparedness, EMS and Systems of Care

Michigan Department of Health & Human Services

Initial Date: 07/19/2023
Revised Date: Section: 9-25R

Dosing: PEDS SEIZURE
Indication: Pediatric seizure patient, unable to start IV, 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. Glucagon according to MI MEDIC cards
    2. If MI MEDIC cards are not available 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)