Initial Date: 07/19/2023
Revised Date: 08/11/2023

Cefazolin

Pharmacological Category: Antibiotic, Cephalosporin (First Generation)

Routes: IV/IO

Indications:
1. **Open fractures**
2. Partial/complete amputations
3. Major soft tissue injures (e.g., mangled extremity)

Contraindications:
1. Infusion <7 years of age (volume for infusion is larger than allowable fluid bolus).

Notes:
Slow IV push dilution of cefazolin
1. Dilute 2 gm cefazolin with 20 mL NS
    a. Inject two 10 mL flushes into one 2 gm vial of cefazolin
    OR
    b. Inject one 10 mL flush into each 1 gm vial of cefazolin.
2. Resulting concentration is 100 mg/mL

Infusion dilution of cefazolin
1. Add cefazolin dosage (slow IV push dilution) to 100 mL bag of NS
    a. Adults: add 20 mL (2 gm diluted) to 100 mL bag of NS
    b. Pediatrics > 7 years of age: volume of diluted cefazolin added to 100 mL of NS will be calculated weight-based dosage.

Dosing: SOFT TISSUE AND ORTHOPEDIC INJURIES
Indication: Partial/complete amputation, major soft tissue injures (e.g., mangled extremity) and open fractures.
Adults administer:
1. Cefazolin 2 gm (slow IV push dilution), slow IVP over 3-5 minutes
    OR
2. Cefazolin Infusion: 2 gm (slow IV push dilution) added to a 100 mL bag of NS. Infuse over 15-30 minutes.

Pediatrics
1. Pediatrics slow IVP cefazolin administer:
    a. Cefazolin (slow IV push dilution) according to MI MEDIC cards.
        i. . If MI MEDIC cards are not available administer Cefazolin (slow IV push dilution) 30 mg/kg slow IVP over 3-5 minutes. Maximum dose 2 gm.
        OR
2. Pediatrics ≥ 7 years of age infusion of cefazolin administer:

a. Cefazolin infusion according to MI MEDIC cards
   a. If MI MEDIC cards are not available administer cefazolin (slow IV push dilution) 30 mg/kg added to 100 mL bag of NS. Max dose 2 gms. Infuse over 15-30 minutes.

Used in the Following Protocols
Soft Tissue and Orthopedic Injuries (Section 2 Trauma and Environmental)