

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

Section: 9-18R

## **Ceftriazone**

**Pharmacological Category:** Antibiotic, Cephalosporin (Third Generation)

### **Indications:**

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

### **Contraindications:**

1. Patients  $\leq$  2 months old (any administration of ceftriazone)
2. Infusion  $<$ 7 years of age (volume for infusion is larger than allowable fluid bolus).
3. Allergies to cefepime (Maxipime) or cefotaxime (Claforan)

### **Side effects:**

1. Rapid administration can result in tachycardia, restlessness, diaphoresis, and palpitations, pain at injection site.

### **Notes:**

#### Slow IV push dilution of ceftriazone

1. Dilute 2 gm ceftriazone with 20 mL NS:
  - a. Inject two 10 mL flushes into one 2 gm vial of ceftriazone**OR**
  - a. Inject one 10 mL flush into each 1 gm vial of ceftriazone.
2. Resulting concentration is 100 mg/mL

#### Infusion dilution of ceftriazone

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

### **Dosing: SOFT TISSUE AND ORTHOPEDIC INJURIES**

Indication: Partial/complete amputations, major soft tissue injuries (e.g., mangled extremity) and open fractures.

#### Adults administer:

1. Ceftriazone Slow IVP: 2gm (slow IV push dilution), slow IVP over 3-5 minutes
- OR**
2. Ceftriazone Infusion: 2gm (slow IV push dilution) added to a 100 mL bag of NS. Infuse over 15-30 minutes.

#### Pediatrics

1. Pediatrics  $>$  2 months old ceftriazone slow IV push administer:
  - a. Ceftriazone (slow IV push dilution) according to MI MEDIC cards.

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ii. If MI MEDIC cards are not available administer ceftriaxone (slow IV push dilution) 50 mg/kg slow IVP over 3-5 minutes. Maximum dose 2 gm.

**OR**

2. Pediatrics  $\geq 7$  years of age ceftriaxone infusion administer:

a. Ceftriaxone infusion according to MI MEDIC cards

i. If MI MEDIC cards are not available administer ceftriaxone (slow IV push dilution) 50 mg/kg added to 100 mL bag of NS. Max dose 2 gm. Infuse over 15-30 minutes.

**Used in the Following Protocol(s):**

Soft Tissue and Orthopedic Injuries (Section 2 Trauma and Environmental)