



**MEDICATION REFERENCE  
NOT FOR USE DURING PATIENT CARE  
Medications General**

Initial Date: 11/17/2023

Revised Date:

Section: MR10

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**Ceftriaxone**

**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 ceftriaxone)
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 ceftriaxone

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

Infusion dilution of ceftriaxone

1. Add ceftriaxone 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 ceftriaxone 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. Ceftriaxone Slow IVP: 2gm (slow IV push dilution), slow IVP over 3-5 minutes  
**OR**
2. Ceftriaxone 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 ceftriaxone slow IV push administer:
  - a. Ceftriaxone (slow IV push dilution) according to MI MEDIC cards.
    - 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**

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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)