

# Cefuzrom 1.5 Injection

## Cefuroxime (1500 mg) Injection

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- **Meningitis:** Bacterial meningitis caused by susceptible organisms.
  - **Septicemia:** Bloodstream infections.
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## Composition

### Each vial contains:

- **Cefuroxime (as Cefuroxime Sodium):**  
1500 mg
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## Description

Cefuroxime (1500 mg) Injection is a second-generation cephalosporin antibiotic that is used to treat a variety of bacterial infections. It works by inhibiting the synthesis of the bacterial cell wall, leading to cell lysis and the death of the bacteria. This formulation is typically administered when oral antibiotics are not suitable, or when a more potent form of treatment is required for severe infections.

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## Indications

Cefuroxime (1500 mg) Injection is indicated for the treatment of:

- **Respiratory Tract Infections:** Such as pneumonia, bronchitis, and sinusitis.
- **Urinary Tract Infections:** Including pyelonephritis and cystitis.
- **Skin and Soft Tissue Infections:** Including cellulitis, abscesses, and wound infections.
- **Bone and Joint Infections:** Including osteomyelitis.
- **Intra-abdominal Infections:** Such as peritonitis and appendicitis.
- **Gynecological Infections:** Including pelvic inflammatory disease (PID).

## Dosage and Administration

- **Adults and Children Over 12 Years:**
  - **For most infections:** 1.5 gm every 8-12 hours, administered either intravenously or intramuscularly, depending on the severity of the infection and the clinical condition of the patient.
  - **Severe Infections:** The dose can be increased to 3 gm per day (in divided doses).
- **Pediatric Patients (Children Under 12 Years):**
  - **For mild to moderate infections:** 25-50 mg/kg/day, divided into 3 doses, administered intravenously.
  - **For severe infections:** 50-100 mg/kg/day, divided into 3 doses.
- **Renal Impairment:** The dosage may need to be adjusted in patients with renal dysfunction based on their creatinine clearance.
- **Administration:**
  - **Intravenous (IV) Injection:** Reconstitute the vial with sterile water or saline and inject the solution slowly over 3-5 minutes. For continuous infusion, it can be further diluted in an appropriate IV fluid.
  - **Intramuscular (IM) Injection:** Reconstitute the vial with sterile water for injection and inject deep into the muscle.
- **Duration of Therapy:** The treatment duration depends on the type and severity of the infection, typically

ranging from 7 to 14 days, or as directed by the healthcare provider.

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## Mechanism of Action

Cefuroxime is a cephalosporin antibiotic that acts by binding to the bacterial penicillin-binding proteins (PBPs). These PBPs are essential for the synthesis of the bacterial cell wall.

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## Warnings and Precautions

- **Allergic Reactions:** As with other beta-lactam antibiotics, cefuroxime may cause allergic reactions, including anaphylaxis.
  - **Renal Function:** Monitor renal function during therapy, especially in patients with pre-existing renal impairment.
  - **Gastrointestinal Disorders:** Cefuroxime should be used cautiously in patients with a history of gastrointestinal diseases, particularly colitis.
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## Side Effects

Common side effects may include:

- **Gastrointestinal:** Nausea, vomiting, diarrhea, abdominal pain.
  - **Allergic Reactions:** Rash, fever, pruritus (itching), urticaria (hives).
  - **Hematologic:** Eosinophilia, leukopenia, thrombocytopenia, or anemia.
  - **Injection Site Reactions:** Pain, swelling, or redness at the site of injection (IV or IM).
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## Drug Interactions

- **Aminoglycosides:** The combination of cefuroxime with aminoglycoside

antibiotics (e.g., gentamicin) may increase the risk of nephrotoxicity.

- **Probenecid:** Probenecid can inhibit the renal excretion of cefuroxime, increasing its plasma concentration. If used concurrently, a dose reduction of cefuroxime may be necessary.
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## Overdose

Overdose may lead to symptoms such as nausea, vomiting, dizziness, or seizures. If overdose is suspected, the patient should be closely monitored, and symptomatic treatment should be provided.

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## Storage

- Store the vials in a cool, dry place, below 25°C (77°F).
  - Do not freeze the product.
  - After reconstitution, the solution should be used within 24 hours if stored at room temperature or within 48 hours if refrigerated.
  - Keep out of the reach of children.
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**Note:** Always administer Cefuroxime Injection as prescribed by a healthcare provider. Follow-up with your healthcare provider is essential to monitor the response to treatment and to identify any adverse effects.

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