

Tillpime TZ Injection

Cefepime (1000mg) + Tazobactam (125mg) Injection – Comprehensive Guide

Introduction

Cefepime (1000mg) + Tazobactam (125mg) Injection is a **broad-spectrum antibiotic** used to treat severe **bacterial infections** caused by drug-resistant pathogens. This **combination therapy** enhances the effectiveness of cefepime, a fourth-generation **cephalosporin**, by including tazobactam, a **beta-lactamase inhibitor** that prevents bacterial resistance. It is administered **intravenously (IV) or intramuscularly (IM)** under medical supervision.

Composition & Mechanism of Action

1. **Cefepime (1000mg)** – A fourth-generation cephalosporin that disrupts **bacterial cell wall synthesis**, leading to cell death. It is effective against **Gram-positive and Gram-negative bacteria**, including drug-resistant strains.
2. **Tazobactam (125mg)** – A beta-lactamase inhibitor that protects cefepime from degradation by **beta-lactamase enzymes** produced by resistant bacteria. This extends the antibiotic's spectrum of activity.

Indications (Uses)

This injection is prescribed for the treatment of:

- **Severe respiratory infections** (pneumonia, bronchitis)
- **Urinary tract infections (UTIs)**, including complicated and drug-resistant cases
- **Intra-abdominal infections**, including peritonitis
- **Skin and soft tissue infections**
- **Septicemia (blood infections)**
- **Neutropenic fever** (infections in immunocompromised patients)
- **Complicated gynecological infections**

Dosage & Administration

- Administered **intravenously (IV)** over **30-60 minutes** or **intramuscularly (IM)** as per physician's instructions
- **Standard adult dosage:** 1-2g of cefepime every 8-12 hours, depending on the severity of the infection
- **Dosage adjustments** required for patients with **renal impairment**
- **Treatment duration:** Typically **7-14 days**, depending on the infection type and response to therapy

Precautions & Warnings

- **Allergic Reactions:** Patients with a history of **penicillin or cephalosporin allergy** should use caution
- **Renal Impairment:** Dose adjustment is required for patients with **kidney disease**
- **Liver Function Monitoring:** Regular **liver function tests** are recommended for prolonged use
- **Superinfections:** Prolonged use may cause secondary infections, such as **Clostridium difficile-associated diarrhea**
- **Use in Pregnancy & Lactation:** Should be used only if clearly needed, under medical supervision

Side Effects

Common Side Effects:

- Injection site reactions (pain, redness, swelling)
- Nausea, vomiting, or diarrhea
- Headache and dizziness
- Mild skin rashes

Serious Side Effects (Seek Medical Attention):

- Severe allergic reactions (anaphylaxis, swelling of the face/tongue)
- Clostridium difficile-associated diarrhea
- Seizures (in patients with renal impairment or high doses)
- Unusual bleeding or bruising

Drug Interactions

- **Aminoglycosides:** Increased risk of kidney damage
- **Loop Diuretics (e.g., Furosemide):** May enhance nephrotoxicity
- **Probenecid:** Can slow the elimination of cefepime, increasing its effects
- **Anticoagulants (e.g., Warfarin):** May increase bleeding risk

Storage & Handling

- Store **below 25°C** in a **cool, dry place**
- Protect from **direct sunlight and moisture**
- Use **immediately after reconstitution** or as per storage guidelines

Final Thoughts

Cefepime (1000mg) + Tazobactam (125mg) Injection is a **potent, broad-spectrum antibiotic** used for serious bacterial infections. Its **combination therapy** provides enhanced coverage against resistant bacteria, making it an essential choice for **hospital-acquired and complicated infections**. However, due to potential **renal, hepatic, and allergic risks**, its use requires **careful medical supervision and dose adjustments when necessary**.

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