

Tillpime 250 Injection

Cefepime (250 mg) Injection

Description:

Cefepime (250 mg) injection is a broad-spectrum cephalosporin antibiotic that is used for the treatment of a variety of bacterial infections. It is a fourth-generation cephalosporin that offers potent activity against both gram-positive and gram-negative bacteria. Cefepime is effective in treating serious infections including pneumonia, urinary tract infections (UTIs), sepsis, and intra-abdominal infections.

Composition:

- Cefepime: 250 mg per vial of injection
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Indications:

Cefepime 250 mg injection is indicated for the treatment of the following infections caused by susceptible organisms:

1. Pneumonia (including hospital-acquired and community-acquired pneumonia)
2. Urinary tract infections (UTIs), including complicated infections
3. Intra-abdominal infections, such as peritonitis and abscesses
4. Sepsis (bloodstream infections)
5. Skin and soft tissue infections, including cellulitis, wound infections, and abscesses
6. Febrile neutropenia (fever in patients with low white blood cell count)
7. Bacteremia (bacterial infections in the bloodstream)

8. Complicated infections in immunocompromised patients, such as those undergoing chemotherapy or organ transplantation.
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Mechanism of Action:

Cefepime is a broad-spectrum cephalosporin antibiotic that works by binding to penicillin-binding proteins (PBPs) on the bacterial cell wall. This binding disrupts the synthesis of the bacterial cell wall, which is essential for bacterial survival. The weakening of the cell wall results in bacterial lysis and death.

Cefepime is highly effective against a wide range of gram-positive organisms (such as *Streptococcus pneumoniae*) and gram-negative bacteria (including *Pseudomonas aeruginosa*, *Escherichia coli*, and *Klebsiella pneumoniae*).

Dosage and Administration:

Cefepime injection is administered intravenously (IV) or intramuscularly (IM), depending on the clinical situation and the severity of the infection.

- For Adult Patients:
 - Pneumonia, Urinary Tract Infections, Skin Infections: 500 mg to 1 gram every 12 hours.
 - Sepsis or Bacteremia: 1 gram to 2 grams every 12 hours.
 - Intra-abdominal infections: 1 to 2 grams every 12 hours.
- For Pediatric Patients:

The dose for children is typically based on weight, with a usual dose of 50 mg/kg per day, divided into two doses every 12

hours. The maximum dose should not exceed 2 grams per day.

- **For Renal Impairment:**
Dose adjustments are required for patients with impaired kidney function. In patients with renal insufficiency, the dose should be reduced depending on the degree of renal dysfunction, and close monitoring is required.
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Side Effects:

Cefepime injection is generally well tolerated, but it may cause side effects in some individuals:

1. Common Side Effects:

- Injection site reactions (pain, redness, swelling)
- Diarrhea or loose stools
- Rash or itching
- Nausea or vomiting
- Fever (due to an allergic reaction or superinfection)

2. Serious Side Effects (Less common):

- Allergic reactions, including anaphylaxis, swelling, and difficulty breathing
 - Severe diarrhea, including Clostridium difficile-associated diarrhea
 - Kidney problems, such as elevated creatinine or renal dysfunction
 - Blood disorders, such as low white blood cell count (neutropenia) or low platelet count (thrombocytopenia)
 - Seizures, particularly in patients with renal dysfunction
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Precautions:

- **Allergic Reactions:**
 - Patients with a known allergy to penicillin or other cephalosporins

should use Cefepime with caution, as cross-reactivity may occur.

- **Renal Impairment:**
 - Dose adjustment is required for patients with renal insufficiency. Close monitoring of renal function is necessary, particularly for long-term therapy.
 - **Pregnancy and Breastfeeding:**
 - **Pregnancy Category B:** Cefepime has been shown to be safe in animal studies, but its use in pregnant women should be based on the potential benefit and risk.
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Storage:

- Store Cefepime injection at room temperature (15°C to 30°C) in a dry place.
 - Protect from light and moisture.
 - Keep out of reach of children.
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Note: Cefepime is effective against bacterial infections but not against viral infections. Use it only for the specific conditions and bacterial infections it is prescribed for. Always follow the prescribed dosage and consult with a healthcare provider to ensure the proper use and to avoid resistance or unnecessary side effects.

Manufactured in India for:

CafoliTM
L I F E C A R E

Cafoli Lifecare Pvt. Ltd.

(An ISO 9001: 2015 Certified Co.)

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