

Clickstin 2MIU Injection

Colistimethate Sodium (2 Million IU) Injection

bactericidal activity primarily against gram-negative bacteria, including multidrug-resistant strains.

Composition

Each vial contains:

- Colistimethate Sodium – 2 Million IU

Indications

Colistimethate Sodium Injection is used in the treatment of serious infections caused by multidrug-resistant bacteria. It is particularly effective against *Pseudomonas aeruginosa*, *Acinetobacter baumannii*, and other resistant gram-negative bacteria. The injection is indicated for:

- **Severe Respiratory Infections:** Such as ventilator-associated pneumonia, hospital-acquired pneumonia, and other lower respiratory tract infections caused by resistant pathogens.
- **Urinary Tract Infections:** Complicated urinary tract infections caused by multi-drug resistant organisms.
- **Bloodstream Infections:** Including sepsis caused by resistant pathogens.
- **Cystic Fibrosis:** For the treatment of chronic pulmonary infections in cystic fibrosis patients caused by resistant organisms.
- **Other Severe Infections:** In cases where the infection is caused by pathogens resistant to standard antibiotic therapies.

Mechanism of Action

Colistimethate Sodium is an antibiotic that is converted to colistin in the body. Colistin is a polymyxin antibiotic that binds to the bacterial cell membrane, disrupting its integrity and causing leakage of cellular contents, which leads to cell death. It has

Dosage and Administration

- **Adult Dosage:**
The usual dose is 1 to 2 Million IU every 8 to 12 hours, depending on the severity of the infection. For more severe infections, higher doses may be required, but these should be determined by the treating physician, especially in patients with compromised renal function.
- **Pediatric Dosage:**
Pediatric dosages are typically based on the child's weight. The recommended dosage is usually 50,000 to 150,000 IU/kg/day, divided into 2-3 doses. The exact dosage should be determined by a healthcare provider based on the child's condition and renal function.
- **Route of Administration:**
This injection should be administered intravenously (IV) after reconstitution. The infusion should be given over 30-60 minutes to minimize side effects and improve drug absorption.

Note: Do not administer as a rapid IV push or bolus injection.

Contraindications

- **Hypersensitivity:** Contraindicated in patients who have a known allergy to colistimethate sodium or any of its components.
- **Renal Impairment:** Caution is advised in patients with renal insufficiency or those with a history of kidney disease. Colistimethate is primarily excreted by the kidneys, so dosage adjustments are necessary in renal dysfunction.
- **Pregnancy & Breastfeeding:** The use of colistimethate sodium during pregnancy and breastfeeding should be considered only if the

benefits outweigh the risks. Consult a doctor before using this drug.

Warnings and Precautions

- **Nephrotoxicity:** Colistimethate sodium can be nephrotoxic. Renal function should be monitored closely during therapy, especially in patients with pre-existing renal conditions or those receiving other nephrotoxic drugs.
 - **Neurotoxicity:** Higher doses or prolonged use may result in neurological effects like dizziness, tingling, or numbness. If these symptoms occur, discontinue treatment immediately.
 - **Superinfection:** Extended use of colistimethate may result in overgrowth of non-susceptible organisms, including fungi, leading to superinfections.
 - **Use in Cystic Fibrosis:** In cystic fibrosis patients, close monitoring is essential as the drug is commonly used for chronic pulmonary infections.
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Side Effects

Common side effects include:

- **Kidney-related issues:** Elevated blood urea nitrogen (BUN) and creatinine levels, indicating potential nephrotoxicity.
 - **Neurological effects:** Numbness, tingling, dizziness, or confusion.
 - **Gastrointestinal symptoms:** Nausea, vomiting, abdominal discomfort.
 - **Respiratory issues:** Rarely, patients may experience bronchospasm or shortness of breath.
 - **Allergic reactions:** Rash, fever, or in rare cases, anaphylaxis.
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Drug Interactions

- **Nephrotoxic Drugs:** Concurrent use with aminoglycosides, vancomycin, or NSAIDs increases the risk of kidney toxicity.

- **Neuromuscular Blockers:** Caution is required when using colistimethate in patients also taking neuromuscular blocking agents, as it may intensify their effects.
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Storage Instructions

- Store in a cool, dry place, away from light.
 - Keep at room temperature, between 15°C to 25°C (59°F to 77°F).
 - Reconstituted solution should be used immediately or stored as directed by a healthcare provider.
 - Keep out of reach of children.
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Important Notice

This product is to be administered under the supervision of a healthcare professional, particularly in hospital settings, as it requires proper monitoring of renal function and other vital parameters during treatment.

Consult your healthcare provider before starting this medication to ensure it is suitable for your condition.

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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