

Moxolunic IV

Moxifloxacin Infusion Overview

Generic Name:

Moxifloxacin

Brand Names:

Avelox, Avalox, or generic equivalents

Dosage Form:

Intravenous (IV) Infusion Solution, typically 400 mg/250 mL

Drug Class:

Fluoroquinolone Antibiotic

Indications:

Moxifloxacin Infusion is used to treat a variety of bacterial infections, including:

1. **Community-Acquired Pneumonia (CAP)**
2. **Complicated Skin and Soft Tissue Infections**
3. **Complicated Intra-Abdominal Infections** (including polymicrobial infections)
4. **Acute Bacterial Sinusitis** (when oral therapy is not suitable)
5. **Acute Exacerbations of Chronic Bronchitis**

Note: Moxifloxacin should be used only for infections proven or strongly suspected to be caused by susceptible bacteria.

Mechanism of Action:

Moxifloxacin works by inhibiting bacterial DNA gyrase and topoisomerase IV, enzymes critical for bacterial DNA replication, transcription, and repair. This results in the death of the bacterial cells.

Dosage & Administration:

- **Usual Dose:**
400 mg once daily via intravenous infusion.
- **Infusion Time:**
Administer over **60 minutes** to avoid cardiovascular side effects.
- **Duration of Therapy:**
 - **Community-Acquired Pneumonia:** 7-14 days
 - **Skin and Soft Tissue Infections:** 7-21 days
 - **Intra-Abdominal Infections:** 5-14 days

Note: Transition to oral therapy can occur when appropriate, as moxifloxacin has the same dosage for oral and IV formulations.

Preparation & Administration:

1. **Check Solution:** Ensure the infusion solution is clear and free from particulates.
 2. **Compatibility:**
 - Compatible with sodium chloride (0.9%) and dextrose (5%) solutions.
 - Do not mix with other drugs or solutions.
 3. **Infusion Site:** Use a dedicated IV line or flush before and after administration.
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Side Effects:

Common Side Effects:

- Nausea or vomiting
- Diarrhea
- Headache
- Dizziness
- Injection site reactions (pain, redness)

Serious Side Effects:

- **Tendonitis or Tendon Rupture:** Especially in older adults or those taking corticosteroids.
- **QT Prolongation:** Risk of abnormal heart rhythms.
- **Peripheral Neuropathy:** Nerve damage symptoms (pain, tingling, weakness).
- **Severe Allergic Reactions:** Rash, itching, swelling, difficulty breathing.
- **C. difficile-Associated Diarrhea:** Persistent diarrhea caused by antibiotic use.

Precautions:

1. **Cardiac Risk:**
 - Avoid in patients with a history of QT prolongation, arrhythmias, or electrolyte imbalances (hypokalemia, hypomagnesemia).
2. **Tendon Damage Risk:**
 - Discontinue if tendon pain or swelling occurs.
3. **CNS Effects:**
 - Use with caution in patients with a history of seizures or neurological disorders.
4. **Hypersensitivity:**
 - Avoid use if allergic to fluoroquinolones.
5. **Renal and Hepatic Impairment:**
 - No dosage adjustment needed in mild-to-moderate impairment, but caution is advised in severe cases.
6. **Pregnancy & Breastfeeding:**
 - Use only if clearly needed; consult a healthcare provider.

Drug Interactions:

- **Medications That Prolong QT Interval:**
 - Examples: Antiarrhythmics, antipsychotics, certain antihistamines.
- **NSAIDs:**
 - May increase the risk of CNS stimulation and seizures.
- **Antacids & Multivitamins:**
 - Avoid concomitant use with calcium, magnesium, aluminum, or iron

supplements, as they can reduce effectiveness.

Storage:

- **Temperature:** Store at room temperature (15°C-30°C or 59°F-86°F).
- **Protect from light.**
- **Do not freeze.**

When to Seek Medical Advice:

- Signs of **allergic reactions:** rash, swelling, or difficulty breathing.
- Symptoms of **tendon pain** or swelling.
- Persistent **diarrhea** or abdominal pain.
- **Irregular heartbeat** or palpitations.
- **Neurological symptoms:** tingling, numbness, confusion, or seizures.

Moxifloxacin Infusion should always be administered under the supervision of a healthcare professional. Follow all medical advice and report any unusual symptoms promptly.

Manufactured in India for:



Cafoli Lifecare Pvt. Ltd.

(An ISO 9001: 2015 Certified Co.)

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