

What are the possible side effects of moxifloxacin injection?

Moxifloxacin injection can cause side effects that may be serious or even cause death.

- See **What Is the most important information I should know about moxifloxacin injection?**
- **Serious heart rhythm changes (QT prolongation and torsades de pointes)**. Tell your healthcare provider right away if you have a change in your heartbeat (a fast or irregular heartbeat), or if you faint. Moxifloxacin injection may cause a rare heart problem known as prolongation of the QT interval. This condition can cause an abnormal heart beat, which may be very dangerous. The chances of this event are higher in people:
 - o Who are elderly.
 - o With a family history of prolonged QT interval
 - o Who take certain medicines to control heart rhythm (antiarrhythmics)
 - o Who take certain medicines to control heart rhythm (antiarrhythmics)
 - o Who have low blood potassium (hypokalemia)
 - o Who have low blood magnesium (hypomagnesemia)
- **Serious allergic reactions**. Allergic reactions can happen in people taking fluoroquinolones, including moxifloxacin, even after only 1 dose. Stop receiving moxifloxacin injection and get emergency medical help right away if you get any of the following symptoms (a severe allergic reaction):
 - o Hives
 - o Swallowing or breathing or swallowing
 - o Trouble breathing, tongue, face
 - o Swelling of the lips, tongue, face
 - o Fainting, dizziness, hoarseness
 - o Fast heartbeat
- **Skin rash**. Skin rash may happen in people receiving moxifloxacin injection even after only 1 dose. Stop receiving moxifloxacin injection at the first sign of a skin rash and call your healthcare provider. Skin rash may be a sign of a more serious reaction to moxifloxacin injection.

- **Aortic aneurysm and dissection**. Tell your healthcare provider if you have ever been told that you have a swelling of the large artery that carries blood from the heart to the body (aortic aneurysm). Get emergency medical help right away if you have sudden chest, stomach, or back pain.
- **Infectious proctitis (pseudotumor colitis)**. Pseudotumor colitis can happen with most antibiotics, including moxifloxacin injection. Call your healthcare provider right away if you get watery diarrhea, diarrhea that does not go away, or bloody stools. You may have stomach cramps and a fever.
- **Changes in blood sodium**. Increased blood sodium can happen in people who receive moxifloxacin injection. Tell your healthcare provider if you are on a salt-restricted diet or have congestive heart failure. You should not receive moxifloxacin injection if you are on a salt-restricted diet.
- **Changes in blood sugar**. People who receive moxifloxacin injection and other fluoroquinolone medicines with oral anti-diabetic medicines or with insulin can get low blood sugar (hypoglycemia) and high blood sugar (hyperglycemia). Follow your healthcare provider's instructions for how often to check your blood sugar. If you have diabetes and you get low blood sugar when receiving moxifloxacin injection, stop receiving moxifloxacin injection and call your healthcare provider right away. Your healthcare provider may need to change your diabetes medicine.
- **Seizure or sunlight hypersensitivity**. See **What should avoid while receiving moxifloxacin injection?** The most common side effects of moxifloxacin injection include:
 - dizziness
 - headache
 - diarrhea
 - nausea

These are not all the possible side effects of moxifloxacin injection. Tell your healthcare provider about all side effects that bothers you or that does not go away. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of moxifloxacin injection.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. This Medication Guide summarizes the most important information about moxifloxacin injection. If you would like more information about moxifloxacin injection, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about moxifloxacin injection that is written for health professionals.

What are the ingredients in moxifloxacin injection? Active ingredient: moxifloxacin

Inactive ingredients: sodium acetate trihydrate, disodium sulfate, sodium succinate (for pH adjustment), and water for injection

Manufactured for:

FRESENIUS

KABI

LAKE ZURICH, IL 60047

www.fresenius-kabi.com/us

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This Medication Guide has been approved by the U.S. Food and Drug Administration

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Table 5: Incidence (%) of Selected Adverse Reactions in ≥0.9% of Pediatric Patients Treated with Moxifloxacin Injection in OAC Clinical Trial

System Organ Class	Adverse Reactions	Moxifloxacin Injection N=301 (%)	Comparator N=150 (%)
Gastrointestinal disorders	Abdominal pain	8 (2.7)	3 (2.0)
	Diarrhea	11 (3.7)	1 (0.7)
	Vomiting	20 (6.6)	12 (8.0)
General disorders and administration site reactions	Pyrexia	6 (2.0)	4 (2.7)
Investigations	Apparatus aminotransferase increased	2 (0.7)	3 (2.0)
	Electrocardiogram QT prolonged	28 (9.3)	4 (2.7)
Musculoskeletal and connective tissue disorders	Arthralgia	9 (3.0)	2 (1.3)
Nervous system disorders	Headache	6 (2.0)	2 (1.3)
Vascular disorders	Phlebitis	8 (2.7)	0 (0)

Clinical response was assessed at the test-of-cure visit (28 to 42 days after end of treatment). The clinical response rates observed in the modified intent-to-treat population were 63.9% (209/324) for Moxifloxacin and 65.5% (127/193) for comparator. See Table 6.

Table 6: Clinical Response Rates at 28-42 Days After End of Treatment in Pediatric Patients with cIAI

mITT Population ¹	Moxifloxacin (n=248)	Comparator (n=133)	Difference ² (95% CI)
Cure	209 (83.9)	127 (95.5)	-12.2 (-17.9, -6.4)
Failure	17 (6.9)	3 (2.3)	
Indeterminate	21 (8.5)	3 (2.3)	
Missing	2 (0.8)	0	

- ¹ The modified intent-to-treat (mITT) population is defined as all subjects who were treated with at least one dose of study medication and who have at least one pre-treatment cause organism from the intra-abdominal site of infection from blood cultures.
- ² Difference in clinical cure rates (Moxifloxacin - Comparator) and 95% confidence intervals. Presented as percentages.

Results are based on stratified analysis by age group using Mantel-Haenszel methods.

Safety and effectiveness of Moxifloxacin Injection in pediatric patients less than 18 years of age have not been established. Moxifloxacin causes arthropathy in juvenile animals (see **Food Warning, Warnings and Precautions (6.12)**, and **Warnings and Precautions (12.3)**).

8.3 Geriatric Use

Geriatric patients are at an increased risk for developing severe tendon disorders including tendon rupture when being treated with a fluoroquinolone such as Moxifloxacin Injection. This risk is further increased in patients receiving concomitant corticosteroid therapy. Tendinitis or tendon rupture can involve the Achilles, hand, shoulder, or other tendon sites and can occur during or after completion of therapy, cases occurring up to several months after fluoroquinolone treatment has ended. The administration of corticosteroids as soon as possible after oral or intravenous oral formulation, especially those oral corticosteroids. Patients should be informed of this potential side effect and advised to discontinue Moxifloxacin Injection and contact their healthcare provider if any symptoms of tendinitis or tendon rupture occur (see **Food Warning, Warnings and Precautions (6.1, 6.2, and Adverse Reactions (6.2)**).

Epidemiologic studies report an increased rate of aortic aneurysm and dissection within two months following use of fluoroquinolones, particularly in elderly patients (see **Warnings and Precautions (6.2)**). Moxifloxacin Injection contains 1,207 mg (52.5 mg/mL) of sodium per unit dose. The geriatric population may respond with a burst in potassium to salt loading. This may be clinically important with regard to such diseases as congestive heart failure (see **Warnings and Precautions (5.1)**).

In controlled multi-dose clinical trials, 23% of patients receiving oral moxifloxacin were greater than or equal to 65 years of age and 5% were greater than or equal to 75 years of age. The clinical trial data demonstrate that there is no difference in the safety and efficacy of oral moxifloxacin in patients aged 65 or older compared to younger adults.

In trials of intravenous use, 42% of moxifloxacin patients were greater than or equal to 65 years of age, and 23% were greater than or equal to 75 years of age. The clinical trial data demonstrate that the safety of intravenous moxifloxacin in patients aged 65 or older was similar to that of comparator-treated patients. In general, elderly patients may be more susceptible to drug-associated effects of QT interval. Therefore, Moxifloxacin Injection should be avoided in patients taking drugs that can result in prolongation of the QT interval (for example, Class IA or Class III antiarrhythmics) or in patients taking drugs that increase the risk of torsades de pointes (for example, known QT prolongation, uncorrected hypokalemia) (see **Warnings and Precautions (6.8)**, **Drug Interactions (7.4)**, and **Clinical Pharmacology (12.3)**).

8.6 Renal Impairment
The pharmacokinetic parameters of moxifloxacin are not significantly altered in mild, moderate, severe, or end-stage renal disease. No dosage adjustment is necessary with renal impairment, including those patients requiring hemodialysis (HD) or continuous ambulatory peritoneal dialysis (CAPD) (see **Dosage and Administration (2)**, and **Clinical Pharmacology (12.3)**).

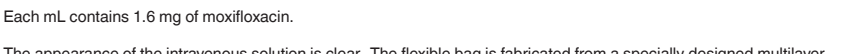
8.7 Hepatic Impairment
No dosage adjustment is recommended for mild, moderate, or severe hepatic insufficiency (Child-Pugh Classes A, B, or C). However, due to metabolic disturbances associated with hepatic insufficiency, which may lead to QT prolongation, Moxifloxacin Injection should be used with caution in these patients (see **Warnings and Precautions (6.6)**, and **Clinical Pharmacology (12.3)**).

10 OVERDOSAGE

Single doses up to 2.8 g were not associated with any serious adverse events. In the event of acute overdose, the stomach should be emptied and adequate hydration maintained. ECG monitoring is recommended due to the possibility of QT interval prolongation. The patient should be carefully observed and given supportive treatment. The administration of activated charcoal as soon as possible after oral overdose may prevent excessive increase of systemic moxifloxacin exposure. About 3% and 5% of the dose of moxifloxacin, as well as about 2% and 4% of the glucuronide metabolite are removed by continuous ambulatory peritoneal dialysis and hemodialysis, respectively.

11 DESCRIPTION

Moxifloxacin is a synthetic broad spectrum antibacterial agent for intravenous administration. Moxifloxacin, a fluoroquinolone, is available as a buffered monohydrochloride salt of 1-cyclopentyl-7-[3S]-2,6-diazabicyclo[3.3.0]non-8-ylidene-8-ylidene-8-oxo-1,4-dihydro-4-oxo-3-quinoline carboxylic acid. It is a slightly yellow to yellow crystalline substance. Its chemical structure is as follows:



Moxifloxacin Injection is a sterile solution for infusion in a ready-to-use, single-dose flexible bag.

Moxifloxacin Injection

Component	Action	Dosage Formulation
Moxifloxacin*	Active ingredient	400 mg*
Sodium acetate (added as a trihydrate)	Tonicity adjuster	1,702.5 mg
Disodium sulfate	Tonicity adjuster	2,840 mg
Sulfuric acid	pH adjustment	As needed
Water for injection	Vehicle	q.s. 250 mL

* 400 mg moxifloxacin equivalent to 437 mg of moxifloxacin hydrochloride.

** The pH may have been adjusted with sulfuric acid. The pH is 5.0 to 6.0.

Each mL contains 1.6 mg of moxifloxacin.

The appearance of the intravenous solution is clear. The flexible bag is fabricated from a specially designed multilayer plastic (Bionolle®). Solution is in contact with the polypropylene layer of this container and can leach out certain chemical components of the plastic in very small amounts within the expiration period. The leachable compounds were all within acceptable limits based on animal toxicology studies.

Moxifloxacin Injection contains approximately 52.5 mg/mL (1,207 mg) of sodium in 250 mL.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Moxifloxacin is a member of the fluoroquinolone class of antibacterial agents (see **Microbiology (12.2)**).

12.2 Pharmacokinetics

The mean (±SD) pharmacokinetic parameters of moxifloxacin following single and multiple doses of 400 mg moxifloxacin given by 1-hour intravenous infusion are summarized in Table 7. The mean (±SD) elimination half-life from plasma is 12 to 13 hours; intravenous is achieved after at least three days with a 400 mg once daily regimen. The absolute bioavailability of moxifloxacin is approximately 90 percent. When switching from intravenous to oral formulation, no dosage adjustment is necessary (see **Dosage and Administration (2.2)**).

Table 7: Mean (±SD) C_{max} and AUC Values Following Single and Multiple Doses of 400 mg Moxifloxacin Given by 1-Hour Intravenous Infusion

	C _{max} (mg/L)	AUC (mg·h/L)	Half-life (hr)
Single Dose IV			
Healthy young male/female (n = 56)	3.9 ± 0.8	39.3 ± 8.6	8.2 to 15.4*
Patients (n = 116)			
Female (n = 64)	4.4 ± 3.7		
Female (n = 54)	4.1 ± 2.2		
< 65 years (n = 58)	4.6 ± 4.2		
> 65 years (n = 58)	4.3 ± 1.3		
Multiple Dose IV			
Healthy young male (n = 8)	4.2 ± 0.8	38 ± 4.7	14.8 ± 2.2
elderly (n = 4)	6.1 ± 1.8	48 ± 9.9	10.1 ± 1.6
Patients (n = 107)			
Female (n = 58)	4.2 ± 2.6		
Female (n = 49)	4.6 ± 1.5		
< 65 years (n = 52)	4.1 ± 1.4		
> 65 years (n = 55)	4.7 ± 2.7		

* Range of means from different studies

* Excludes 2 patients who required additional surgery within the first 48 hours.

* NA = Not applicable

† Percent of patients in comparison obtained during the time of the end of the infusion

Distribution
Moxifloxacin is concentrated 30 to 50% bound to serum proteins, independent of drug concentration. The volume of distribution of moxifloxacin ranges from 1.7 to 2.7 L/kg. Moxifloxacin is widely distributed throughout the body, with tissue concentrations often exceeding plasma concentrations. Moxifloxacin has been detected in the saliva, nasal and bronchial secretions, mucosa of the uterus, skin blister fluid, subcutaneous tissue, skeletal muscle, and abdominal tissues and fluids following oral or intravenous administration of 400 mg. Moxifloxacin concentrations measured post-dose in various tissues and fluids following a 400 mg oral or intravenous dose are summarized in Table 8.

The rates of elimination of moxifloxacin from tissues generally parallel the elimination from plasma.

Table 8: Moxifloxacin Concentrations (mean ± SD) in Tissues and the Corresponding Plasma Concentrations After a Single 400 mg Oral or Intravenous Dose*

Tissue or Fluid	N	Plasma Concentration (mg/mL)	Tissue or Fluid Concentration (mg/mL or mcg/g)	Tissue Plasma Ratio
Respiratory				
Alveolar Macrophages	5	3.3 ± 0.7	61.8 ± 27.3	21.2 ± 1.0
Bronchial Mucosa	8	3.3 ± 0.7	3.5 ± 1.3	1.7 ± 0.3
Epithelial Lining Fluid	24	3.3 ± 0.7	24.4 ± 14.7	6.7 ± 6.1
Sinus				
Maxillary Sinus Mucosa	4	3.7 ± 1.1b	7.6 ± 1.7	2 ± 0.3
Anterior Ethmoid Mucosa	3	3.7 ± 1.1b	6.8 ± 4.3	2.2 ± 0.6
Nasal Polyps	4	3.7 ± 1.1b	9.8 ± 4.5	2.6 ± 0.6
Skin, Musculoskeletal				
Skin: Full thickness	5	3.0 ± 0.5c	2.6 ± 0.9	0.9 ± 0.2
Subcutaneous Tissue	6	2.3 ± 0.4d	0.9 ± 0.6	0.4 ± 0.6
Skeletal Muscle	6	2.3 ± 0.4d	0.9 ± 0.2e	0.4 ± 0.1
Intra-Abdominal				
Abdominal Issue	8	2.9 ± 0.5	7.6 ± 2	2.7 ± 0.8
Abdominal exudate	10	2.9 ± 0.5	3.5 ± 1.2	1.6 ± 0.7
Ascites fluid	8	2.7 ± 0.7	3.3 ± 1.2	0.8 ± 0.4

* All moxifloxacin concentrations were measured 3 hours after a single 400 mg dose, except the abdominal tissue and exudate concentrations which were measured at 2 hours post-dose and the sinus concentrations which were measured 3 hours post-dose after 5 days of dosing.

* n = 5

* n = 7

* n = 12

* Reflects only non-protein bound concentrations of drug.

Metabolism
Approximately 52% of an oral or intravenous dose of moxifloxacin is metabolized via glucuronide and sulfate conjugation. The cytochrome P450 system is not involved in moxifloxacin metabolism and is not affected by moxifloxacin. The sulfate conjugation (M1) accounts for approximately 35% of the dose and is eliminated primarily in the urine. Approximately 14% of an oral or intravenous dose is converted to a moxifloxacin metabolite (M2), which is excreted exclusively in the urine. Peak plasma concentration of M2 are approximately 40% those of the parent drug, while plasma concentrations of M1 are generally less than 10%. Those of moxifloxacin.

In vitro studies with cytochrome (CYP) P450 enzymes indicate that moxifloxacin does not inhibit CYP3A4, CYP2D6, CYP2C9, CYP2C19, or CYP1A2, suggesting that moxifloxacin is unlikely to alter the pharmacokinetics of drugs metabolized by these enzymes.

Excretion
Approximately 45% of an oral or intravenous dose of moxifloxacin is excreted as unchanged drug (~20% in urine and ~25% in feces). A total of 96% ± 4% of an oral dose is excreted as either unchanged drug or known metabolites. The mean (±SD) amount of total clearance and renal clearance are 12 ± 2 L/hr and 2.5 ± 0.5 L/hr, respectively. Pharmacokinetics in Specific Populations

Geriatric
Following oral administration of 400 mg moxifloxacin for 10 days in 16 elderly (8 male, 8 female) and 17 young (8 male, 9 female) healthy volunteers, there were no age-related changes in moxifloxacin pharmacokinetics. In 10 healthy male volunteers (8 young by age) given a single 200 mg dose of oral moxifloxacin, the extent of systemic exposure (AUC and C_{max}) was not significantly different between young and elderly males and elimination half-life was unchanged. No dosage adjustment is necessary based on age.

Gender
In a study comparing the pharmacokinetics between male and female subjects, moxifloxacin was administered intravenously at 400 mg per day similar to those observed in young patients (see **Use in Specific Populations (8.3)**).

Renal Insufficiency
The pharmacokinetic parameters of moxifloxacin are not significantly altered in mild, moderate, severe, or end-stage renal disease. No dosage adjustment is necessary in patients with renal impairment, including those patients requiring hemodialysis (HD) or continuous ambulatory peritoneal dialysis (CAPD).

Hepatic Insufficiency
No dosage adjustment is recommended for mild, moderate, or severe hepatic insufficiency (Child-Pugh Classes A, B, or C). However, due to metabolic disturbances associated with hepatic insufficiency, which may lead to QT prolongation, moxifloxacin should be used with caution in these patients (see **Warnings and Precautions (6.6)**, and **Use in Specific Populations (8.7)**).

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Pharmacokinetics in Specific Populations
The pharmacokinetics of single dose and multiple doses of moxifloxacin were studied in patients with CLCR < 30 mL/min on either HD or continuous ambulatory peritoneal dialysis (CAPD). Following a single 400 mg oral dose, the AUC of moxifloxacin in these HD and CAPD patients did not vary significantly from the AUC generally found in healthy volunteers. C_{max} values of moxifloxacin were reduced by about 45% and 33% in HD and CAPD patients, respectively, compared to healthy controls. The exposure (AUC) to the sulfate conjugate (M1) increased by 1.4- to 1.5-fold in these patients. The mean AUC of the glucuronide conjugate (M2) increased by a factor of 7.5, whereas the mean C_{max} values of the glucuronide conjugate (M2) increased by a factor of 2.5-fold in both groups. The mean C_{max} of M2 increased by 1.4- and 1.3-fold (ranging up to 2.7- and 2.1-fold), respectively. The clinical significance of increased exposure to the sulfate and glucuronide conjugates has not been studied. In a subset of patients participating in a clinical trial, the plasma concentrations of moxifloxacin and metabolites were determined approximately at the moxifloxacin T_{1/2}, following the first intravenous oral moxifloxacin dose in the Child-Pugh class II patients (n = 10) were similar to those in the Child-Pugh Class A/B patients (n = 9), and also similar to those observed in healthy volunteers, studies.

Pharmacokinetics in Specific Populations
A study of the skin response to ultraviolet (UVA and UVB) and visible radiation resulted in 35 healthy volunteers (8 per group) demonstrated that moxifloxacin does not show phototoxicity in comparison to placebo. The minimum phototoxic dose (MED) was measured before and after treatment with moxifloxacin (200 mg oral or 400 mg once daily), moxifloxacin (400 mg once daily), or placebo. In this study, the MED measures in both doses of moxifloxacin were not significantly different from placebo, while keratolysis significantly lowered the MED.

It is difficult to correlate relative photosensitivity/photoxicity among various fluoroquinolones during actual patient use because each drug has a different phototoxicity profile. In a study comparing the phototoxicity of moxifloxacin to ciprofloxacin, moxifloxacin was found to be less phototoxic than ciprofloxacin. In a study comparing the phototoxicity of moxifloxacin to levofloxacin, moxifloxacin was found to be less phototoxic than levofloxacin. In a study comparing the phototoxicity of moxifloxacin to ofloxacin, moxifloxacin was found to be less phototoxic than ofloxacin. In a study comparing the phototoxicity of moxifloxacin to gemifloxacin, moxifloxacin was found to be less phototoxic than gemifloxacin. In a study comparing the phototoxicity of moxifloxacin to pefloxacin, moxifloxacin was found to be less phototoxic than pefloxacin. In a study comparing the phototoxicity of moxifloxacin to flumequinone, moxifloxacin was found to be less phototoxic than flumequinone. 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