

**Moxifloxacin (Mfx)****DRUG CLASS: FLUOROQUINOLONE**

<b>Activity against TB, mechanism of action, and metabolism</b>	<b>Bactericidal</b> ; inhibits DNA gyrase; cross-resistance with other fluoroquinolones, but may be more active based on in vitro data.
<b>Dose</b>	<b>Adults:</b> 400 mg daily (oral or IV). <b>Children:</b> No established dose. <b>Renal failure/dialysis:</b> No dose adjustment required.
<b>Route of administration</b>	Oral or IV.
<b>Preparation</b>	Tablets (400 mg); aqueous solution (400 mg/250 ml) for IV injection.
<b>Storage</b>	Store oral and IV products at room temperature (15–25 °C). Do not refrigerate.
<b>Oral absorption</b>	Good oral absorption (90% bioavailable). Moxifloxacin is an anion and taking with divalent cations will result in bonding and not being absorbed: Administrate 2 hours before or 4 hours after ingestion of milk-based products, antacids, or other medications containing divalent cations (iron, magnesium, calcium, zinc, vitamins, didanosine, sucralfate).
<b>CSF penetration</b>	Good penetration in animal model studies.
<b>Special circumstances</b>	<b>Use during pregnancy/breastfeeding:</b> Fluoroquinolones are generally avoided during pregnancy and breastfeeding due to observation of arthropathy in animal models. However, there are a few case reports of fluoroquinolones being used safely during pregnancy. <b>Use in renal disease:</b> Excretion unchanged during renal failure; no data on effect of dialysis. <b>Use in hepatic disease:</b> Rarely associated with hepatotoxicity; use with caution. No dose adjustment required for mild or moderate liver disease.
<b>Adverse reactions</b>	Nausea and diarrhea. Headache and dizziness. Rare tendon rupture; arthralgias. Rare hepatotoxicity. QTc prolongation, hypo/hyperglycaemia.
<b>Contraindications</b>	Fluoroquinolone intolerance, prolonged QTc.
<b>Monitoring</b>	Symptomatic monitoring.

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**Patient instructions  
and alerting symptoms**

Moxifloxacin can be taken with food, but do not take milk-based products, antacids (especially aluminum-coating), vitamin supplements, or sucralfate within 2 hours of this medication or 4 hours after.

**Instruct patients to inform their health care provider right away if any of the following occurs:**

- Pain, swelling or tearing of a tendon (such as the back of your ankle, elbow), or muscle or joint pain
  - Rashes, hives, bruising or blistering, trouble breathing, or tightness in the chest
  - Diarrhoea
  - Yellow skin or eyes
  - Anxiety, confusion or dizziness.
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