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INDICATIONS AND USAGE
 These highlights do not include all the information needed to use LEVOFLOXACIN Injection safely and effectively. See full prescribing information for LEVOFLOXACIN Injection.

LEVOFLOXACIN Injection, Solution for Intravenous Use
 Initial U.S. Approval: 1996

WARNING: SERIOUS ADVERSE REACTIONS INCLUDING TENDINITIS, TENDON RUPTURE, PERIPHERAL NEUROPATHY, CENTRAL NERVOUS SYSTEM EFFECTS AND EXACERBATION OF MYASTHENIA GRAVIS
 See full prescribing information for complete boxed warning.

- Fluoroquinolones, including Levofloxacin Injection, have been associated with disabling and potentially irreversible serious adverse reactions that have occurred in patients with myasthenia gravis. A warning about myasthenia gravis is included in the following sections:
 - Tendinitis and tendon rupture (5.1), including:
 - Peripheral neuropathy (5.3)
 - Central nervous system effects (5.4)

Discontinue Levofloxacin Injection immediately and avoid the use of fluoroquinolones, including Levofloxacin Injection, in patients who experience any of these serious adverse reactions (5.1).

- Fluoroquinolones, including Levofloxacin Injection, may exacerbate muscle weakness in patients with myasthenia gravis. Avoid Levofloxacin Injection in patients with a known history of myasthenia gravis (see **Warnings and Precautions (5.5)**).
- Because fluoroquinolones, including Levofloxacin Injection, have been associated with serious adverse reactions, including tendonitis, tendinitis, tendon rupture, peripheral neuropathy, and central nervous system effects, avoid the use of fluoroquinolones, including Levofloxacin Injection, in patients who have no alternative treatment options for the following indications:
 - Uncomplicated urinary tract infection (1.12)
 - Acute bacterial exacerbation of chronic bronchitis (1.13)
 - Acute bacterial sinusitis (1.14)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Levofloxacin Injection and other antibacterial drugs, Levofloxacin Injection should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. (1.15)

RECENT MAJOR CHANGES

Boxed Warning Indications and Usage (1) 06/2016
 Dosage and Administration (2) 06/2016
 Warnings and Precautions (5) 06/2016

INDICATIONS AND USAGE

Levofloxacin Injection is a fluoroquinolone antibacterial indicated in adults (≥18 years of age) with infections caused by designated, susceptible bacteria (1, 12, 4).

- Pneumonia: Nosocomial (1.1) and Community-Acquired (1.2, 1.3)
- Skin and Skin Structure Infections: Complicated (1.4) and Uncomplicated (1.5)
- Chronic bacterial prostatitis (1.6)
- Inhalational Anthrax, Post-Exposure (1.7)
- Urinary Tract Infections: Complicated (1.9, 1.10) and Uncomplicated (1.12)
- Acute Pyelonephritis (1.11)
- Acute Bacterial Exacerbation of Chronic Bronchitis (1.13)
- Acute Bacterial Sinusitis (1.14)

DOSAGE AND ADMINISTRATION

Dosage in patients with normal renal function (2.1)

System/Organ Class	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7 to 14
Community Acquired Pneumonia (1.2)	500 mg	7 to 14
Community Acquired Pneumonia (1.3)	750 mg	5
Complicated Skin and Skin Structure Infections (1.4)	750 mg	7 to 14
Uncomplicated SSTI (1.5)	500 mg	7 to 10
Chronic Bacterial Prostatitis (1.6)	500 mg	28
Inhalational Anthrax (Post-Exposure) (1.7)	500 mg	60
Adults and Pediatric Patients >50 kg of age	500 mg BID (not to exceed 250 mg/dose)	

CONTRAINDICATIONS

Known hypersensitivity to levofloxacin or other quinolones (4, 5, 7).

WARNINGS AND PRECAUTIONS

- Anaphylactic reactions and allergic skin reactions, serious, occasionally fatal, may occur after first dose (4, 5, 7).
- Hematologic: including agranulocytosis, thrombocytopenia, and renal dysfunction (see **Warnings and Precautions (5.1)**).
- Hepatoxicity: Severe, and sometimes fatal, hepatotoxicity has been reported. Discontinue immediately if signs and symptoms of hepatitis occur (5.8).
- Clostridium difficile*-associated colitis: evaluate if diarrhea occurs (5.9).
- Prolongation of the QT interval and isolated cases of torsade de pointes have been reported. Avoid use in patients with known prolongation, those with hypokalemia, and with other drugs that prolong the QT interval (5.10, 8.5).

USE IN SPECIFIC POPULATIONS

Geriatrics: Severe hepatotoxicity has been reported. The majority of reports describe patients 65 years of age or older (5.8, 8.5, 17). May have increased risk of tendinopathy (including rupture), especially with concomitant corticosteroid use (see **Warnings and Precautions (5.1)**). May be more susceptible to prolongation of the QT interval (5.10, 8.5, 17).

Pediatrics: Musculoskeletal disorders (arthralgia, arthritis, tendinopathy, and gait abnormality) seen in more Levofloxacin Injection-treated patients than in placebo-treated patients. Avoid use in pediatric patients treated for juvenile animals (5.11, 8.4, 13.2). Safety in pediatric patients treated for more than 14 days has not been studied. Risk-benefit appropriate only for the treatment of inhalational anthrax (post-exposure) (1.7, 2.2, 8.4, 14.9) and plague (1.8, 2.2, 8.4, 14.9).

See 17 for PATIENT COUNSELING INFORMATION Medication Guide.

FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: SERIOUS ADVERSE REACTIONS INCLUDING TENDINITIS, TENDON RUPTURE, PERIPHERAL NEUROPATHY, CENTRAL NERVOUS SYSTEM EFFECTS AND EXACERBATION OF MYASTHENIA GRAVIS
 Including Tendinitis and Tendon Rupture, Peripheral Neuropathy, and Central Nervous System Effects

1. INDICATIONS AND USAGE

- Nosocomial Pneumonia
- Community-Acquired Pneumonia: 7- to 14-day Treatment Regimen
- Community-Acquired Pneumonia: 5-day Treatment Regimen
- Complicated Skin and Skin Structure Infections
- Uncomplicated Skin and Skin Structure Infections
- Chronic Bacterial Prostatitis
- Inhalational Anthrax (Post-Exposure)
- Complicated Urinary Tract Infections: 5-day Treatment Regimen
- Complicated Urinary Tract Infections: 10-day Treatment Regimen
- Acute Pyelonephritis: 5- or 10-day Treatment Regimen
- Uncomplicated Urinary Tract Infections
- Acute Bacterial Exacerbation of Chronic Bronchitis
- Acute Bacterial Sinusitis: 5-day and 10- to 14-day Treatment Regimens

2. DOSAGE AND ADMINISTRATION

- Dosage in Adult Patients with Normal Renal Function
- Dosage in Pediatric Patients
- Dosage Adjustment in Adult Patients with Renal Impairment
- Drug Interaction with Chelation Agents: Antacids, Sucralfate, Metal Cations, Multivitamins

3. CONTRAINDICATIONS

- Known Hypersensitivity to Levofloxacin or Other Quinolones

4. WARNINGS AND PRECAUTIONS

- Disabling and Potentially Irreversible Serious Adverse Reactions Including Tendinitis and Tendon Rupture, Peripheral Neuropathy, and Central Nervous System Effects
- Tendinitis and Tendon Rupture
- Peripheral Neuropathy
- Central Nervous System Effects
- Exacerbation of Myasthenia Gravis
- Other Serious and Sometimes Fatal Adverse Reactions
- Hepatoxicity
- Hepatotoxicity
- Clostridium difficile*-Associated Diarrhea
- Prolongation of the QT Interval
- Musculoskeletal Disorders in Pediatric Patients and Arthropathic Effects in Animals
- Blood Glucose Disturbances
- Photosensitivity/Phototoxicity
- Development of Drug-Resistant Bacteria

5. ADVERSE REACTIONS

- Serious and Other Important Adverse Reactions
- Clinical Trial Experience
- Postmarketing Experience

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- Fluoroquinolones, including levofloxacin, have been associated with disabling and potentially irreversible serious adverse reactions that have occurred together (see **Warnings and Precautions (5.1)**), including:
 - Tendinitis and tendon rupture (see **Warnings and Precautions (5.2)**), including:
 - Peripheral neuropathy (see **Warnings and Precautions (5.3)**)
 - Central nervous system effects (see **Warnings and Precautions (5.4)**)

Discontinue Levofloxacin Injection immediately and avoid the use of fluoroquinolones, including levofloxacin, in patients who experience any of these serious adverse reactions (see **Warnings and Precautions (5.1)**).

- Fluoroquinolones, including levofloxacin, may exacerbate muscle weakness in patients with myasthenia gravis. Avoid levofloxacin Injection in patients with a known history of myasthenia gravis (see **Warnings and Precautions (5.5)**).
- Because fluoroquinolones, including levofloxacin, have been associated with serious adverse reactions, including tendonitis, tendinitis, tendon rupture, peripheral neuropathy, and central nervous system effects, avoid the use of fluoroquinolones, including levofloxacin, in patients who have no alternative treatment options for the following indications:
 - Uncomplicated urinary tract infection (see **Indications and Usage (1.12)**)
 - Acute bacterial exacerbation of chronic bronchitis (see **Indications and Usage (1.13)**)
 - Acute bacterial sinusitis (see **Indications and Usage (1.14)**).

Types of Infection	Dose Every 24 hours	Duration (days)
Plaque (1.8)	500 mg	10 to 14
Adults and Pediatric Patients >50 kg of age	8 mg/kg BID (not to exceed 250 mg/dose)	
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.11)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Acute Bacterial Exacerbation of Chronic Bronchitis (1.13)	500 mg	7
Acute Bacterial Sinusitis (1.14)	750 mg	5
	250 mg	10 to 14

* Adjust dose for creatinine clearance < 50 mL/min (2.3, 8.6, 13.2).

† IV Injection, Single-Dose Vial; Slow IV Infusion only, over 60 or 90 minutes.

‡ Dilute single-dose vials to 5 mg/mL prior to IV infusion (2.6).

§ Do not mix with other medications in vial or IV line (2.6).

DOSAGE FORMS AND STRENGTHS

Formulation **Strength**

Injection: single-dose vials for dilution 500 mg in 20 mL, 750 mg in 30 mL

CONTRAINDICATIONS

Known hypersensitivity to levofloxacin or other quinolones (4, 5, 7).

WARNINGS AND PRECAUTIONS

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- Hematologic: including agranulocytosis, thrombocytopenia, and renal dysfunction (see **Warnings and Precautions (5.1)**).
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Geriatrics: Severe hepatotoxicity has been reported. The majority of reports describe patients 65 years of age or older (5.8, 8.5, 17). May have increased risk of tendinopathy (including rupture), especially with concomitant corticosteroid use (see **Warnings and Precautions (5.1)**). May be more susceptible to prolongation of the QT interval (5.10, 8.5, 17).

Pediatrics: Musculoskeletal disorders (arthralgia, arthritis, tendinopathy, and gait abnormality) seen in more Levofloxacin Injection-treated patients than in placebo-treated patients. Avoid use in pediatric patients treated for juvenile animals (5.11, 8.4, 13.2). Safety in pediatric patients treated for more than 14 days has not been studied. Risk-benefit appropriate only for the treatment of inhalational anthrax (post-exposure) (1.7, 2.2, 8.4, 14.9) and plague (1.8, 2.2, 8.4, 14.9).

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- Complicated Urinary Tract Infections: 10-day Treatment Regimen
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- Acute Bacterial Sinusitis: 5-day and 10- to 14-day Treatment Regimens

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- Dosage in Adult Patients with Normal Renal Function
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- Drug Interaction with Chelation Agents: Antacids, Sucralfate, Metal Cations, Multivitamins

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Discontinue Levofloxacin Injection immediately and avoid the use of fluoroquinolones, including levofloxacin, in patients who experience any of these serious adverse reactions (see **Warnings and Precautions (5.1)**).

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 - Uncomplicated urinary tract infection (see **Indications and Usage (1.12)**)
 - Acute bacterial exacerbation of chronic bronchitis (see **Indications and Usage (1.13)**)
 - Acute bacterial sinusitis (see **Indications and Usage (1.14)**).

1.3 Community-Acquired Pneumonia: 5-day Treatment Regimen
 Levofloxacin is indicated for the treatment of community-acquired pneumonia due to *Streptococcus pneumoniae* (excluding multi-drug-resistant strains [MDRSP]), *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Mycoplasma pneumoniae*, *Chlamydia pneumoniae* (see **Dosage and Administration (2.1)** and **Clinical Studies (14.3)**).

1.4 Complicated Skin and Skin Structure Infections
 Levofloxacin is indicated for the treatment of complicated skin and skin structure infections due to methicillin-susceptible *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*, or *Proteus mirabilis* (see **Clinical Studies (14.5)**).

1.5 Uncomplicated Skin and Skin Structure Infections
 Levofloxacin is indicated for the treatment of uncomplicated skin and skin structure infections due to methicillin-susceptible *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*, or *Proteus mirabilis* (see **Clinical Studies (14.5)**).

1.6 Chronic Bacterial Prostatitis
 Levofloxacin is indicated for the treatment of chronic bacterial prostatitis due to *Escherichia coli*, *Enterococcus faecalis*, methicillin-susceptible *Staphylococcus epidermidis* (see **Clinical Studies (14.6)**).

1.7 Inhalational Anthrax (Post-Exposure)
 Levofloxacin is indicated for inhalational anthrax (post-exposure) to reduce the risk of mortality or progression of disease following exposure to *Bacillus anthracis*. The effectiveness of levofloxacin is based on plasma concentrations achieved in humans, a surrogate endpoint reasonably likely to predict clinical benefit. Levofloxacin has not been tested in humans for the post-exposure prophylaxis of the QT interval. (See **Warnings and Precautions (5.10)** for durations of therapy beyond 28 days or in pediatric patients for durations of therapy beyond 14 days that have not been studied. Prolonged levofloxacin therapy should only be used when the benefit outweighs the risk (see **Dosage and Administration (2.1, 2.2)** and **Clinical Studies (14.9)**).

1.8 Plague
 Levofloxacin is indicated for treatment of plague, including pneumonic and septicemic plague, due to *Yersinia pestis* (*Y. pestis*) and prophylaxis for plague in adults and pediatric patients, 6 months of age and older. Efficacy studies for levofloxacin could not be conducted in humans for ethical and feasibility reasons. Therefore, approval of this indication was based on an efficacy study conducted in animals (see **Dosage and Administration (2.1, 2.2)** and **Clinical Studies (14.10)**).

1.9 Complicated Urinary Tract Infections: 5-day Treatment Regimen
 Levofloxacin is indicated for the treatment of complicated urinary tract infections due to *Escherichia coli*, *Klebsiella pneumoniae*, or *Proteus mirabilis* (see **Clinical Studies (14.7)**).

1.10 Complicated Urinary Tract Infections: 10-day Treatment Regimen
 Levofloxacin is indicated for the treatment of complicated urinary tract infections (mild to moderate) due to *Enterococcus faecalis*, *Enterobacter cloacae*, *Escherichia coli*, *Klebsiella pneumoniae*, *Proteus mirabilis*, or *Pseudomonas aeruginosa* (see **Indications and Usage (1.7)** and **Clinical Studies (14.8)**).

1.11 Acute Pyelonephritis: 5- or 10-day Treatment Regimen
 Levofloxacin is indicated for the treatment of uncomplicated urinary tract infections (mild to moderate) due to *Escherichia coli*, *Klebsiella pneumoniae*, or *Staphylococcus saprophyticus*.

Because fluoroquinolones, including levofloxacin, have been associated with serious adverse reactions (see **Warnings and Precautions (5.1-5.17)**) and for some patients uncomplicated urinary tract infection is self-limiting, reserve levofloxacin for treatment of uncomplicated urinary tract infections in patients who have no alternative treatment options.

1.12 Acute Bacterial Exacerbation of Chronic Bronchitis

Levofloxacin is indicated for the treatment of acute bacterial exacerbation of chronic bronchitis (ABECB) due to methicillin-susceptible *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Haemophilus parainfluenzae*, or *Moraxella catarrhalis* (see **Indications and Usage (1.7)** and **Clinical Studies (14.3)**).

1.13 Acute Bacterial Exacerbation of Chronic Bronchitis

Levofloxacin is indicated for the treatment of uncomplicated urinary tract infections (mild to moderate) due to *Escherichia coli*, *Klebsiella pneumoniae*, or *Staphylococcus saprophyticus*.

1.14 Acute Bacterial Sinusitis

Levofloxacin is indicated for the treatment of acute bacterial sinusitis (ABS) due to *Streptococcus pneumoniae*, *Haemophilus influenzae*, or *Moraxella catarrhalis* (see **Clinical Studies (14.4)**).

2. DOSAGE AND ADMINISTRATION

Because fluoroquinolones, including levofloxacin, have been associated with serious adverse reactions (see **Warnings and Precautions (5.1-5.17)**) and for some patients uncomplicated urinary tract infection is self-limiting, reserve levofloxacin for treatment of uncomplicated urinary tract infections in patients who have no alternative treatment options.

2.1 Dosage in Adult Patients with Normal Renal Function

The usual dose of Levofloxacin Injection is 250 mg or 500 mg administered by slow intravenous infusion over 60 minutes every 24 hours or 750 mg administered by slow infusion over 90 minutes every 24 hours, as indicated by infection and described in Table 1.

2.2 Dosage in Pediatric Patients

These recommendations apply to patients with creatinine clearance ≥ 50 mL/min. For patients with creatinine clearance < 50 mL/min, adjustments to the dosage in this region are required (see **Dosage and Administration (2.3)**).

2.3 Dosage Adjustment in Adult Patients with Renal Impairment

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Because only limited data are available on the compatibility of levofloxacin Injection with other intravenous substances, additives or other medications should not be added to Levofloxacin Injection in Single-Dose Vials, or infusions simultaneously through the same intravenous line. If the same intravenous line is used for sequential infusion of several different drugs, the line should be flushed before and after infusion of Levofloxacin Injection with a infusion solution compatible with Levofloxacin Injection and with any other drug(s) administered via this common line.

2.4 Drug Interaction with Chelation Agents: Antacids, Sucralfate, Metal Cations, Multivitamins

Levofloxacin Injection should not be co-administered with any solution containing multivalent cations, e.g., magnesium, through the same intravenous line (see **Dosage and Administration (2.6)**).

2.5 Administration Instructions

Levofloxacin Injection should be administered with caution in patients with renal insufficiency. Careful clinical observation and appropriate laboratory studies should be performed prior to and during therapy since elimination of levofloxacin may be reduced.

No adjustment is necessary for patients with creatinine clearance ≥ 50 mL/min. In patients with impaired renal function (creatinine clearance < 50 mL/min), adjustment of the dosage regimen is necessary to avoid the accumulation of levofloxacin due to decreased clearance (see **Use in Specific Populations (8.6)**). Table 3 shows how to adjust dose based on creatinine clearance.

2.6 Preparation of Intravenous Solution

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

2.7 PATIENT COUNSELING INFORMATION

Because only limited data are available on the compatibility of levofloxacin Injection with other intravenous substances, additives or other medications should not be added to Levofloxacin Injection in Single-Dose Vials, or infusions simultaneously through the same intravenous line. If the same intravenous line is used for sequential infusion of several different drugs, the line should be flushed before and after infusion of Levofloxacin Injection with a infusion solution compatible with Levofloxacin Injection and with any other drug(s) administered via this common line.

2.8 Hydration for Patients Receiving Levofloxacin Injection

Adequate hydration of patients receiving intravenous levofloxacin should be maintained to prevent the formation of highly concentrated urine. Crystalluria and cyindruria have been reported in patients receiving levofloxacin (see **Warnings and Precautions (5.10)** and **Warnings and Precautions (5.9)**).

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2.12 Hydration for Patients Receiving Levofloxacin Injection

