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# INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Levofloxacin and other antibacterial drugs, Levofloxacin should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be used to guide therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

Levofloxacin Oral Solution is indicated for the treatment of adults (≥18 years of age) with mild, moderate, and severe infections caused by susceptible isolates of the designated microorganisms in the conditions listed in this section.

### Culture and susceptibility testing

Appropriate culture and susceptibility tests should be performed before treatment in order to isolate and identify organisms causing the infection and to determine their susceptibility to levofloxacin [see Microbiology (7.1)]. Therapy with Levofloxacin may be initiated before results of these tests are known; once results become available, appropriate therapy should be selected.

As with other drugs in this class, some isolates of *Pseudomonas aeruginosa* may develop resistance fairly rapidly during treatment with Levofloxacin. Culture and susceptibility testing performed periodically during therapy will provide information about continued susceptibility of the pathogens to the antimicrobial agent and also the possible emergence of bacterial resistance.

### 1.1 Nosocomial Pneumonia

Levofloxacin is indicated for the treatment of nosocomial pneumonia due to methicillin-susceptible *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Escherichia coli*, *Klebsiella pneumoniae*, *Haemophilus influenzae*, or *Streptococcus pneumoniae*. Adjunctive therapy should be used as clinically indicated. Where *Pseudomonas aeruginosa* is a documented or presumptive pathogen, combination therapy with an anti-pseudomonal  $\beta$ -lactam is recommended [see Clinical Studies (14.1)].

### 1.2 Community-Acquired Pneumonia: 7-14 day Treatment Regimen

Levofloxacin is indicated for the treatment of community-acquired pneumonia due to methicillin-susceptible *Staphylococcus aureus*, *Streptococcus pneumoniae* (including multi-drug-resistant *Streptococcus pneumoniae* [MRSP]), *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Klebsiella pneumoniae*, *Mycoplasma pneumoniae*, *Chlamydia pneumoniae*, *Legionella pneumophila*, or *Mycoplasma pneumoniae* [see Dosage and Administration (2.1) and Clinical Studies (14.2)].

MRSP isolates are isolates resistant to two or more of the following antibacterials: penicillin (MIC  $\geq 2$  mcg/mL), 2<sup>nd</sup> generation cephalosporins, e.g., cefuroxime, macrolides, tetracyclines and trimethoprim-sulfamethoxazole.

### 1.3 Community-Acquired Pneumonia: 5-day Treatment Regimen

Levofloxacin is indicated for the treatment of community-acquired pneumonia due to *Streptococcus pneumoniae* (including multi-drug-resistant [MRSP]), *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Mycoplasma pneumoniae*, *Chlamydia pneumoniae* [see Dosage and Administration (2.1) and Clinical Studies (14.3)].

### 1.4 Acute Bacterial Sinusitis: 5-day and 10-14 day Treatment Regimens

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

### 1.5 Acute Bacterial Exacerbation of Chronic Bronchitis due to Methicillin-Susceptible *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Haemophilus parainfluenzae*, or *Moraxella catarrhalis*

Levofloxacin is indicated for the treatment of complicated skin and skin structure infections due to methicillin-susceptible *Staphylococcus aureus*, *Enterococcus faecalis*, *Streptococcus pyogenes*, or *Proteus mirabilis* [see Clinical Studies (14.5)].

### 1.7 Uncomplicated Skin and Skin Structure Infections

Levofloxacin is indicated for the treatment of uncomplicated skin and skin structure infections (mild to moderate) including abscesses, furuncles, impetigo, pyoderma, wound infections, due to methicillin-susceptible *Staphylococcus aureus*, or *Streptococcus pyogenes*.

### 1.8 Chronic Bacterial Prostatitis

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

### 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*, *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 Clinical Studies (14.8)].

### 1.11 Acute Pyelonephritis: 5 or 10-day Treatment Regimens

Levofloxacin is indicated for the treatment of acute pyelonephritis caused by *Escherichia coli*, including cases with concurrent bacteremia [see Clinical Studies (14.7, 14.8)].

### 1.12 Uncomplicated Urinary Tract Infections

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

### 1.13 Inhalational Anthrax (Post-Exposure)

Levofloxacin is indicated for inhalational anthrax (post-exposure) to reduce the incidence or progression of disease following exposure to aerosolized *Bacillus anthracis*. The effectiveness of Levofloxacin is based on plasma concentrations achieved in humans, a surrogate endpoint reasonably likely to predict clinical benefit. Safety studies in humans have not been conducted. Levofloxacin may be used in pediatric patients for the duration of therapy beyond 14 days has 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)].

### 1.14 Plague

Levofloxacin is indicated for treatment of plague, including pneumonic and septicemic plague, due to *Yersinia pestis* (Pestis) and prophylaxis for plague in adults and pediatric patients, 6 months of age and older. Levofloxacin has not been tested in humans for the post-exposure prevention of plague 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)].

### 2.1 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.2 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.3 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.4 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.5 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.6 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.7 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.8 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.9 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.10 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.11 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.12 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.13 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.14 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8)	500 mg	28
Complicated Urinary Tract Infection (1.9) or Acute Pyelonephritis (1.11)	750 mg	5
Complicated Urinary Tract Infection (1.10) or Acute Pyelonephritis (1.12)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3
Inhalational Anthrax (Post-Exposure) (1.13)	500 mg	60
Adults and Pediatric Patients > 50 kg	500 mg	60
Pediatric Patients < 50 kg and $\geq 6$ months of age	8 mg/kg BID (not to exceed 250 mg/dose)	60

### 2.15 Dosage in Adult Patients with Normal Renal Function (creatinine clearance $\geq 50$ mL/min)

Type of Infection <sup>1</sup>	Dose Every 24 hours	Duration (days)
Nosocomial Pneumonia (1.1)	750 mg	7-14
Community Acquired Pneumonia (1.2)	500 mg	7-14
Community Acquired Pneumonia (1.3)	750 mg	5
Acute Bacterial Sinusitis (1.4)	750 mg	5
Acute Bacterial Exacerbation of Chronic Bronchitis (1.5)	500 mg	10-14
Complicated Skin and Skin Structure Infections (SSSI) (1.6)	750 mg	7-14
Uncomplicated SSSI (1.7)	500 mg	7-10
Chronic Bacterial Prostatitis (1.8		



Table 2 (continued): Mean ± SD Levofloxacin PK Parameters

Table 2 (continued): Mean ± SD Levofloxacin PK Parameters. Columns include gender and age groups (Male, Female, Elderly) and various PK parameters like C<sub>12-24</sub> AUC, C<sub>12-24</sub> C<sub>max</sub>, C<sub>12-24</sub> C<sub>min</sub>, Hemodialysis, and CAPD.

1 Clearance/bioavailability
2 Volume of distribution/bioavailability
3 Healthy males 18-53 years of age
4 60 min infusion for 250 mg and 500 mg doses, 90 min infusion for 750 mg dose
5 Healthy male and female subjects 18-54 years of age
6 500 mg every 48h for patients with moderate renal impairment (CLCR 20-50 mL/min) and infections of the respiratory tract or skin
7 Dose-normalized values (to 500 mg dose), estimated by population pharmacokinetic modeling
8 Healthy males 22-75 years of age
9 Healthy females 18-50 years of age
10 young healthy male and female subjects 18-36 years of age
11 healthy elderly male and female subjects 66-80 years of age
12 healthy males and females 19-55 years of age

13 Absolute bioavailability: F=0.99 ± 0.08 from a 500 mg tablet and F=0.99 ± 0.06 from a 750 mg tablet, ND=not determined.

Absorption
Levofloxacin is rapidly and essentially completely absorbed after oral administration. Peak plasma concentrations are usually attained one to two hours after oral dosing. The absolute bioavailability of levofloxacin from a 500 mg tablet and a 750 mg tablet of levofloxacin are both approximately 99%, demonstrating complete absorption of levofloxacin.

Figure 2: Mean Levofloxacin Plasma Concentration vs. Time Profile: 750 mg. Figure 3: Mean Levofloxacin Plasma Concentration vs. Time Profile: 500 mg.

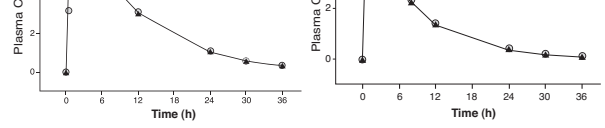


Figure 2: Mean Levofloxacin Plasma Concentration vs. Time Profile: 750 mg. Figure 3: Mean Levofloxacin Plasma Concentration vs. Time Profile: 500 mg.

Distribution
The mean volume of distribution of levofloxacin generally ranges from 74 to 112 L after single and multiple 500 mg or 750 mg doses, indicating wide distribution into body tissues. Levofloxacin reaches its peak levels in skin tissues and in blister fluid of healthy subjects at approximately 3 hours after dosing.

Metabolism
Levofloxacin is stereochemically stable in plasma and urine and does not invert metabolically to its enantiomer, D-ofloxacin. Levofloxacin undergoes limited metabolism in humans and is primarily excreted as unchanged drug in the urine.

Excretion
Levofloxacin is excreted largely as unchanged drug in the urine. The mean terminal plasma elimination half-life of levofloxacin ranges from approximately 6 to 8 hours following single or multiple doses given orally or intravenously.

Geriatric
There are no significant differences in levofloxacin pharmacokinetics between young and elderly subjects when the subjects' differences in creatinine clearance are taken into consideration.

Pediatrics
The pharmacokinetics of levofloxacin following a single 750 mg intravenous dose were investigated in pediatric patients ranging in age from 6 months to 16 years.

Race
The effect of race on levofloxacin pharmacokinetics was examined through a covariate analysis reported on data from 750 patients: 45 white and 24 non-white.

Renal Impairment
Clearance of levofloxacin is substantially reduced and plasma elimination half-life is substantially prolonged in adult patients with impaired renal function (creatinine clearance < 50 mL/min).

Hepatic Impairment
Pharmacokinetic studies in hepatically impaired patients have not been conducted. Due to the limited extent of levofloxacin metabolism, the pharmacokinetics of levofloxacin are not expected to be affected by hepatic impairment.

Bacterial Infection
The pharmacokinetics of levofloxacin in patients with serious community-acquired bacterial infections are comparable to those observed in healthy subjects.

Drug-Drug Interactions
The potential for pharmacokinetic drug interactions between levofloxacin and antiacids, warfarin, theophylline, cyclosporine, digoxin, probenecid, and cimetidine has been evaluated.

Mechanism of Action
Levofloxacin is the L-isomer of the racemate, ofloxacin, a quinolone antimicrobial agent.

Mechnism of Resistance
Levofloxacin resistance can arise through mutations in defined regions of DNA gyrase or topoisomerase II, termed the Quinolone Resistance Determining Regions (QRDRs), or through altered efflux.

Fluoroquinolones, including levofloxacin, differ in chemical structure and mode of action from tetracyclines, macrolides, and beta-lactam antibiotics.

Resistance to levofloxacin due to spontaneous mutation in vitro is a rare occurrence (range: 10<sup>-10</sup> to 10<sup>-14</sup>). Cross-resistance has been observed between levofloxacin and some other fluoroquinolones.

Activity in vitro and in vivo
Levofloxacin has in vitro activity against Gram-negative and Gram-positive bacteria.

Gram-Positive Bacteria
Staphylococcus aureus (methicillin-susceptible isolates)
Staphylococcus epidermidis (methicillin-susceptible isolates)
Streptococcus pneumoniae (including multi-drug resistant isolates [MDRSP]<sup>1</sup>)
Streptococcus pyogenes

MDRSP (Multi-drug resistant Streptococcus pneumoniae) isolates are resistant to several or more antimicrobials including beta-lactams, glycopeptides, and cephalosporins, as well as rifampin, rifaximin, macrolides, tetracyclines and trimethoprim/sulfamethoxazole.

Gram-Negative Bacteria
Enterobacter cloacae
Klebsiella pneumoniae
Morganella morganii
Pseudomonas aeruginosa
Serratia marcescens

Other Bacteria
Chlamydia pneumoniae
Mycoplasma pneumoniae

The following in vitro data are available, but their clinical significance is unknown:
Levofloxacin exhibits in vitro antimicrobial activity against Gram-negative and Gram-positive bacteria.

Gram-Positive Bacteria
Staphylococcus aureus
Staphylococcus epidermidis
Streptococcus pneumoniae
Streptococcus pyogenes

Gram-Negative Bacteria
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter baumannii
Acinetobacter baumannii

When available, the clinical microbiology laboratory should provide the results of in vitro susceptibility test results for antimicrobial drug products used in the resident hospital to the physician as periodic reports that describe the susceptibility profile of nosocomial and community-acquired pathogens.

Diffusion Techniques
These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds. The MIC values should be determined using a standardized procedure.

Quantitative methods that require measurement of zone diameters also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds.

Table 9: Susceptibility Test Interpretive Criteria for Levofloxacin

Table 9: Susceptibility Test Interpretive Criteria for Levofloxacin. Table with columns for Pathogen, Minimum Inhibitory Concentrations (mcg/mL), and Disk Diffusion (zone diameter in mm).

S = Susceptible, I = Intermediate, R = Resistant
a The current absence of data on resistant isolates precludes defining any categories other than "Susceptible."

Quality Control
Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and reliability of subsequent test results.

Table 10: Diffusion Technique Ranges for Susceptibility Testing

Table 10: Diffusion Technique Ranges for Susceptibility Testing. Table with columns for Microorganism, Microorganism QC Number, MIC (mcg/mL), Disk Diffusion (zone diameter in mm).

13.1 NOCULAR TOXICOLOGY
13.1.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
In a lifetime bioassay in rats, levofloxacin exhibited no carcinogenic potential following daily dietary administration for 2 years.

Levofloxacin was not mutagenic in the following assays: Ames bacterial mutation assay (S. typhimurium and E. coli), CHO/HGPRT forward mutation assay, mouse micronucleus test, mouse dominant lethal test, rat unscheduled DNA synthesis assay, and the mouse sister chromatid exchange assay.

Levofloxacin caused no impairment of fertility or reproductive performance in rats at oral doses as high as 360 mg/kg/day, corresponding to 4.2 times the highest recommended human dose based upon relative body surface area and intravenous doses as high as 100 mg/kg/day.

13.2 Animal Toxicology and/or Pharmacology
Levofloxacin and other quinolones have been shown to cause arthropathy in immature animals at oral doses tested (see Warnings and Precautions (5.7)).

14.1 Nosocomial Pneumonia
Adult patients with clinically and radiologically documented nosocomial pneumonia were enrolled in a 14-day randomized open-label study comparing intravenous levofloxacin (750 mg once daily) followed by oral levofloxacin (750 mg once daily) for a total of 7-15 days to intravenous imipenem/cilastatin (500-1000 mg every 6-8 hours) followed by oral ciprofloxacin (750 mg every 12 hours) for a total of 7-15 days.

Overall, in the clinically and microbiologically evaluable population, adjunctive therapy was empirically and statistically superior in 56 (63.9%) of 89 (63.9%) patients in the Levofloxacin group and in 54 (56.4%) of 96 (59.8%) patients in the comparator arm.

Table 11: Clinical Success Rates and Bacteriological Eradication Rates

Table 11: Clinical Success Rates and Bacteriological Eradication Rates. Table with columns for Pathogen, N Patients, % Clinical Success, N Impenem/Cilastatin Patients, % Patients Microbiologically/Clinical Outcomes.

Table 12: Clinical and Bacteriological Success Rates for Levofloxacin-Treated MDRSP in Community-Acquired Pneumonia Patients (Population Valid for Efficacy)

Table 12: Clinical and Bacteriological Success Rates for Levofloxacin-Treated MDRSP in Community-Acquired Pneumonia Patients (Population Valid for Efficacy). Table with columns for Screening Susceptibility, Clinical Success, Bacteriological Successes.

Table 13: Penicillin-resistant, Cephalosporin-resistant, Macrolide-resistant, Trimethoprim/Sulfamethoxazole-resistant, and Tetracycline-resistant results.

Table 14: Clinical Success and Bacteriological Eradication Rates for Resistant Streptococcus pneumoniae (Community Acquired Pneumonia)

Table 14: Clinical Success and Bacteriological Eradication Rates for Resistant Streptococcus pneumoniae (Community Acquired Pneumonia). Table with columns for Type of Resistance, Clinical Success, Bacteriological Eradication.

14.3 Community-Acquired Pneumonia (CAP) - Day 7 Treatment Regimen
To evaluate the safety and efficacy of the higher dose and shorter course of Levofloxacin, 528 outpatient and hospitalized adults with clinically and radiologically determined mild to severe community-acquired pneumonia were evaluated in a double-blind, randomized, prospective, multicenter study comparing

Levofloxacin 750 mg IV or orally, every day for five days or Levofloxacin 500 mg IV or orally, every day for 10 days.

Clinical success rates (cure plus improvement) in the clinically evaluable population were 90.9% in the Levofloxacin 750 mg group and 91.1% in the Levofloxacin 500 mg group.

Table 15: Bacteriological Eradication Rates (Community-Acquired Pneumonia)

Table 15: Bacteriological Eradication Rates (Community-Acquired Pneumonia). Table with columns for Pathogen, Levofloxacin 750 mg 5 days, Levofloxacin 500 mg 10 days.

14.4 Acute Bacterial Sinusitis: 5-day and 10-14 Day Treatment Regimens
Levofloxacin is approved for the treatment of acute bacterial sinusitis (ABS) using either 750 mg by mouth 5 days or 500 mg by mouth once daily for 10-14 days.

Clinical success rates (defined as complete or partial resolution of the pre-treatment signs and symptoms of ABS to such an extent that no further antibiotic treatment was deemed necessary) in the microbiologically evaluable population were 91.4% (139/151) in the Levofloxacin 750 mg group and 88.6% (124/139) in the Levofloxacin 500 mg group at the test-of-cure (TOC) visit (55% CI [4, 2, 10]).

Table 16: Clinical Success Rates by Pathogen at the TOC in Microbiologically Evaluable Subjects Who Underwent Antral Puncture (Acute Bacterial Sinusitis)

Table 16: Clinical Success Rates by Pathogen at the TOC in Microbiologically Evaluable Subjects Who Underwent Antral Puncture (Acute Bacterial Sinusitis). Table with columns for Pathogen, Levofloxacin 750 mg x 5 days, Levofloxacin 500 mg x 10 days.

14.5 Complicated Skin and Skin Structure Infections
Three hundred ninety-nine patients were enrolled in an open-label, randomized, comparative study for complicated skin and skin structure infections.

Among those who could be evaluated clinically 2-5 days after completion of study drug, overall success rates (improved or cured) were 116/138 (84.1%) for patients treated with Levofloxacin and 106/132 (80.3%) for patients treated with ciprofloxacin.

14.6 Chronic Bacterial Prostatitis
Adult patients with a clinical diagnosis of prostatitis and microbiological culture from urine sample collected after prostatic massage (Vb) or expressed prostatic secretion (EPS) specimens obtained via the Meares-Stamey procedure were enrolled in a multicenter, randomized, double-blind study comparing oral levofloxacin 500 mg once daily for 14 days to oral ciprofloxacin 500 mg twice daily for a total of 28 days.

Table 17: Bacteriological Eradication Rates (Chronic Bacterial Prostatitis)

Table 17: Bacteriological Eradication Rates (Chronic Bacterial Prostatitis). Table with columns for Pathogen, Levofloxacin (N=136), Ciprofloxacin (N=125).

Table 18: Bacteriological Eradication Rate at Test-of-Cure
Levofloxacin 750 mg orally 5 days vs Ciprofloxacin 500 mg orally 10 days

Table 18: Bacteriological Eradication Rate at Test-of-Cure. Table with columns for Overall (UTI or AP), cUTI, AP, Microbiologically Evaluable Population.

14.7 Complicated Urinary Tract Infections and Acute Pyelonephritis: 10-day Treatment Regimen
To evaluate the safety and efficacy of the higher dose and shorter course of Levofloxacin, 1109 patients with cUTI and AP were enrolled in a randomized, double-blind, multicenter clinical trial conducted in the US from November 2004 to April 2006 comparing Levofloxacin 750 mg IV or orally once daily for 5 days to ciprofloxacin 500 mg IV or orally twice daily for 10 days.

Table 19: Bacteriological Eradication Rates for Individual Pathogens Recovered From Patients Randomized to Levofloxacin 750 mg QD for 5 Days Treatment

Table 19: Bacteriological Eradication Rates for Individual Pathogens Recovered From Patients Randomized to Levofloxacin 750 mg QD for 5 Days Treatment. Table with columns for Pathogen, Bacteriological Eradication Rate (N/N).

14.8 Outpatient Urinary Tract Infections and Acute Pyelonephritis: 10-day Treatment Regimen
To evaluate the safety and efficacy of the 250 mg dose, 10-day regimen of Levofloxacin, 567 patients with uncomplicated UTI, mild-to-moderate cUTI, and mild-to-moderate AP were enrolled in a randomized, double-blind, multicenter clinical trial conducted in the US from January 1993 to January 1995 comparing Levofloxacin 250 mg orally twice daily for 10 days (282 patients) to ciprofloxacin 500 mg orally twice daily for 10 days (282 patients).

14.9 Intraocular Intra-Aqueous (Post-Exposure)
The effectiveness of Levofloxacin ophthalmic solution (5%) as an adjunctive therapy in the treatment of bacterial conjunctivitis was evaluated in a randomized, double-blind, multicenter study in which patients with acute bacterial conjunctivitis were randomized to receive either Levofloxacin ophthalmic solution 5% or ciprofloxacin ophthalmic solution 0.3% for 14 days.

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