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LEVOFLOXACIN ORAL SOLUTION

These highlights do not include all the information needed to use Levofloxacin safely and effectively. See full prescribing information for Levofloxacin.

WARNING: See full prescribing information for complete boxed warning. Fluoroquinolones, including Levofloxacin, are associated with an increased risk of tendinitis and tendon rupture in all ages. This risk is further increased in older patients usually over 60 years of age, in patients taking corticosteroid drugs, and in patients with kidney, heart or lung transplants. See Warnings and Precautions (5.1).

Fluoroquinolones, including Levofloxacin, may exacerbate muscle weakness in persons with myasthenia gravis. Avoid Levofloxacin in patients with a known history of myasthenia gravis. See Warnings and Precautions (5.2).

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 bacteria.

RECENT MAJOR CHANGES

Indications and Usage	
• Dosage in Adults	04/2012
• Dosage in Adult Patients with Normal Renal Function (2.1)	04/2012
• Dosage in Pediatric Patients (2.2)	04/2012

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

- Nosocomial pneumonia (1.1) and community acquired (1.2, 1.3)
- Acute bacterial sinusitis (1.4)
- Acute bacterial exacerbation of chronic bronchitis (1.5)
- Skin and skin structure infections: complicated (1.6) and uncomplicated (1.7)
- Chronic bacterial prostatitis (1.8)
- Complicated urinary tract infections: complicated (1.9, 1.10) and uncomplicated (1.12)
- Acute pyelonephritis (1.11)
- Inhalational anthrax, post-exposure (1.13)
- Plague (1.14)

DOSE AND ADMINISTRATION: Dosage in patients with normal renal function (2.1).

Type of Infection	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 (1.11)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3

Adults and Pediatric Patients > 50 kg
500 mg BID
Pediatric Patients < 50 kg and ≥ 6 months of age
8 mg/kg BID (not to exceed 500 mg/dose) 60

Plague (1.14)
Adults and Pediatric Patients > 50 kg
500 mg BID (not to exceed 500 mg/dose) 10 to 14
Pediatric Patients < 50 kg and ≥ 6 months of age
8 mg/kg BID (not to exceed 500 mg/dose) 10 to 14

• Adjust dose for creatinine clearance < 50 mL/min (2.3, 6.6, 12.3)

DOSE FORMS AND STRENGTHS:
Formulation Strength
Oral Solution 25 mg/mL

CONTRAINDICATIONS: Known hypersensitivity to Levofloxacin or other quinolones (4, 5.3).

WARNINGS AND PRECAUTIONS: Risk of tendinitis and tendon rupture is increased. This risk is further increased in older patients usually over 60 years of age, in patients taking corticosteroids, and in patients with kidney, heart or lung transplants. Discontinue if pain or inflammation in a tendon occurs (5.1, 8.5).

May exacerbate muscle weakness in persons with myasthenia gravis. Avoid use in patients with a known history of myasthenia gravis (5.2).

Anaphylactic reactions and allergic skin reactions, severe, occasionally fatal, may occur after first dose (4, 5.3).

Hematologic (including agranulocytosis, thrombocytopenia), and renal toxicities may occur after multiple doses (5.4, 5.5).

Hepatotoxicity: Severe, and sometimes fatal, hepatotoxicity has been reported. Discontinue immediately if signs and symptoms of hepatitis occur (5.5).

Central nervous system effects, including convulsions, anxiety, confusion, depression, and insomnia may occur after the first dose. Use with caution in patients with known or suspected disorders that may predispose them to seizures or lower the seizure threshold. Increased intracranial pressure (pseudotumor cerebri) has been reported (5.6).

Clostridium difficile-associated colitis: evaluate if diarrhea occurs (5.7).

Peripheral neuropathy: discontinue if symptoms occur in order to prevent irreversibility (5.8).

Prolongation of the QT interval and isolated cases of torsade de pointes have been reported. Avoid use in patients with known prolongation of the QT interval, with other drugs that prolong the QT interval (5.9, 8.5).

ADVERSE REACTIONS: The most common reactions (≥3%) were nausea, headache, diarrhea, insomnia, constipation and dizziness (6.2).

TO REPORT SUSPECTED ADVERSE REACTIONS, contact Hi-Tech Pharmaceutical Co., Inc. at 1-800-262-9010 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS:

Interacting Drug	Interaction
Multivalent cation-containing products including antacids, metal cations or diuretics	Absorption of levofloxacin is decreased when the tablet or oral solution formulation is taken within 2 hours of these products. Do not co-administer the intravenous formulation in the same IV line with a multivalent cation, e.g., magnesium (2.4, 7.1)
Warfarin	Effect may be enhanced. Monitor prothrombin time, INR, warfarin bleeding (7.2)
Antidiabetic agents	Carefully monitor blood glucose (5.11, 7.3)

USE IN SPECIFIC POPULATIONS: Geriatrics: Severe hepatotoxicity has been reported. The majority of reports describe patients 65 years of age or older (5.5, 8.5, 17). May have increased risk of tendinopathy (including rupture), especially with concomitant corticosteroid use (5.1, 8.5, 17). May be more susceptible to prolongation of the QT interval (5.9, 8.5, 17).

Pediatrics: Musculoskeletal disorders (arthralgia, arthralgia, tendinopathy, and gut abnormality) seen in more Levofloxacin-treated patients than in comparators. Shown to cause arthropathy and osteomyelitis in juvenile animals (5.10, 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) (1.13, 2.2, 8.4, 14.9) and plague (1.14, 2.2, 8.4, 14.10).

See 17 for PATIENT COUNSELING INFORMATION and the FDA-Approved Medication Guide. Revised 08/2012

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RECENT MAJOR CHANGES

Indications and Usage	
• Dosage in Adults	04/2012
• Dosage in Adult Patients with Normal Renal Function (2.1)	04/2012
• Dosage in Pediatric Patients (2.2)	04/2012

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- Chronic bacterial prostatitis (1.8)
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- Acute pyelonephritis (1.11)
- Inhalational anthrax, post-exposure (1.13)
- Plague (1.14)

DOSE AND ADMINISTRATION: Dosage in patients with normal renal function (2.1).

Type of Infection	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 (1.11)	250 mg	10
Uncomplicated Urinary Tract Infection (1.12)	250 mg	3

Adults and Pediatric Patients > 50 kg
500 mg BID
Pediatric Patients < 50 kg and ≥ 6 months of age
8 mg/kg BID (not to exceed 500 mg/dose) 60

Plague (1.14)
Adults and Pediatric Patients > 50 kg
500 mg BID (not to exceed 500 mg/dose) 10 to 14
Pediatric Patients < 50 kg and ≥ 6 months of age
8 mg/kg BID (not to exceed 500 mg/dose) 10 to 14

• Adjust dose for creatinine clearance < 50 mL/min (2.3, 6.6, 12.3)

DOSE FORMS AND STRENGTHS:
Formulation Strength
Oral Solution 25 mg/mL

CONTRAINDICATIONS: Known hypersensitivity to Levofloxacin or other quinolones (4, 5.3).

WARNINGS AND PRECAUTIONS: Risk of tendinitis and tendon rupture is increased. This risk is further increased in older patients usually over 60 years of age, in patients taking corticosteroids, and in patients with kidney, heart or lung transplants. Discontinue if pain or inflammation in a tendon occurs (5.1, 8.5).

May exacerbate muscle weakness in persons with myasthenia gravis. Avoid use in patients with a known history of myasthenia gravis (5.2).

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Hematologic (including agranulocytosis, thrombocytopenia), and renal toxicities may occur after multiple doses (5.4, 5.5).

Hepatotoxicity: Severe, and sometimes fatal, hepatotoxicity has been reported. Discontinue immediately if signs and symptoms of hepatitis occur (5.5).

Central nervous system effects, including convulsions, anxiety, confusion, depression, and insomnia may occur after the first dose. Use with caution in patients with known or suspected disorders that may predispose them to seizures or lower the seizure threshold. Increased intracranial pressure (pseudotumor cerebri) has been reported (5.6).

Clostridium difficile-associated colitis: evaluate if diarrhea occurs (5.7).

Peripheral neuropathy: discontinue if symptoms occur in order to prevent irreversibility (5.8).

Prolongation of the QT interval and isolated cases of torsade de pointes have been reported. Avoid use in patients with known prolongation of the QT interval, with other drugs that prolong the QT interval (5.9, 8.5).

ADVERSE REACTIONS: The most common reactions (≥3%) were nausea, headache, diarrhea, insomnia, constipation and dizziness (6.2).

TO REPORT SUSPECTED ADVERSE REACTIONS, contact Hi-Tech Pharmaceutical Co., Inc. at 1-800-262-9010 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS:

Interacting Drug	Interaction
Multivalent cation-containing products including antacids, metal cations or diuretics	Absorption of levofloxacin is decreased when the tablet or oral solution formulation is taken within 2 hours of these products. Do not co-administer the intravenous formulation in the same IV line with a multivalent cation, e.g., magnesium (2.4, 7.1)
Warfarin	Effect may be enhanced. Monitor prothrombin time, INR, warfarin bleeding (7.2)
Antidiabetic agents	Carefully monitor blood glucose (5.11, 7.3)

USE IN SPECIFIC POPULATIONS: Geriatrics: Severe hepatotoxicity has been reported. The majority of reports describe patients 65 years of age or older (5.5, 8.5, 17). May have increased risk of tendinopathy (including rupture), especially with concomitant corticosteroid use (5.1, 8.5, 17). May be more susceptible to prolongation of the QT interval (5.9, 8.5, 17).

Pediatrics: Musculoskeletal disorders (arthralgia, arthralgia, tendinopathy, and gut abnormality) seen in more Levofloxacin-treated patients than in comparators. Shown to cause arthropathy and osteomyelitis in juvenile animals (5.10, 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) (1.13, 2.2, 8.4, 14.9) and plague (1.14, 2.2, 8.4, 14.10).

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13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
13.2 Animal Toxicology and/or Pharmacology
14 CLINICAL STUDIES
14.1 Nosocomial Pneumonia
14.2 Community-Acquired Pneumonia: 7-14 day Treatment Regimen
14.3 Community-Acquired Pneumonia: 5-5 day Treatment Regimen
14.4 Acute Bacterial Sinusitis: 5-day and 10-14 day Treatment Regimens
14.5 Complicated Skin and Skin Structure Infections
14.6 Chronic Bacterial Prostatitis
14.7 Complicated Urinary Tract Infections and Acute Pyelonephritis: 5-day Treatment Regimen
14.8 Complicated Urinary Tract Infections and Acute Pyelonephritis: 10-day Treatment Regimen
14.9 Inhalational Anthrax (Post-Exposure)
14.10 Plague
15 REFERENCES
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
17.1 Antibacterial Resistance
17.2 Interactions with Food, Fluids, and Concomitant Medications
17.3 Serious and Potentially Serious Adverse Reactions
17.4 Drug Interactions with Insulin, Oral Hypoglycemic Agents, and Warfarin
17.5 Plague and Anthrax Studies
17.6 FDA-Approved Medication Guide
*Sections or subsections omitted from the full prescribing information are not listed

WARNING: Fluoroquinolones, including Levofloxacin, are associated with an increased risk of tendinitis and tendon rupture in all ages. This risk is further increased in older patients usually over 60 years of age, in patients taking corticosteroid drugs, and in patients with kidney, heart or lung transplants. See Warnings and Precautions (5.1).

Fluoroquinolones, including Levofloxacin, may exacerbate muscle weakness in persons with myasthenia gravis. Avoid Levofloxacin in patients with a known history of myasthenia gravis. See Warnings and Precautions (5.2).

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 bacteria.

RECENT MAJOR CHANGES

Indications and Usage	
• Dosage in Adults	04/2012
• Dosage in Adult Patients with Normal Renal Function (2.1)	04/2012
• Dosage in Pediatric Patients (2.2)	04/2012

INDICATIONS AND USAGE: Levofloxacin is a fluoroquinolone antibacterial indicated in adults (≥18 years of age)

