lones, including ofloxacin, are associated with an increased risk of tendinitis Jupture in all ages. This risk is further increased in older nations usually over nd roughlind ones, including bliokacii nd tendon rupture in all ages. This ri O years of age, in patients taking coi r lung transplants (see WARNINGS). sk is turtner increased in older patients usual ticosteroid drugs, and in patients with kidney

Fluoroquinolones, including ofloxacin, may exacerbate muscle weakness in persons with sthenia gravis. Avoid ofloxacin in patients with known history of myasthenia gravis

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

administration. Chemically, ofloxacin, USP, a fluorinated carboxyquinolone, is the racemate, (±)-9-fluoro-2,3-diflydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7*H*-pyrido [1,2,3-de]-1,4-benzoxazine-6-acrboxylic acid. The chemical structure is:

C<sub>18</sub>H<sub>20</sub>PN<sub>9</sub>Q<sub>4</sub>

M.W. 361.4

M.W. 361.

Ofloxacin tablets contain the following inactive ingredients: corn starch, hydroxypropy cellulose, hypromellose, lactose anhydrous, magnesium stearate, polyethylene glycol 400, polysorbate 80, sodium starch glycolate, and titalnium dioxide. Additionally, the 200 mg tablets contain iron oxide yellow and the 400 mg tablets contain iron oxide yellow and iron oxide red.

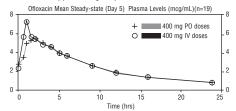
CLINICAL PHARMACOLOGY
Following oral administration, the bioavailability of offoxacin in the tablet formulation is rollowing oral administration, the bloavallability of offoxacin in the tablet formulation is approximately 98%. Maximum serum concentrations are achieved one to two hours after an approximately 98%. Maximum serum concentrations are achieved one to two hours after an oral dose. Absorption of floxacin after single or multiple doses of 200 to 400 mg is predictable, and the amount of drug absorbed increases proportionately with the dose. Ofloxacin has biphasic elimination. Following multiple oral doses at steady-state administration, the half-lives are approximately 4 to 5 hours and 20 to 25 hours. However, the longer half-life represents less than 5% of the total AUC. Accumulation at steady-state can be estimated using a half-life of 9 hours. The total clearance and volume of distribution are approximately similar after single or multiple doses. Elimination is mainly by renal excretion. The following are mean peak serum concentrations in healthy 70 to 80 kg male volunteers after single oral doses of 200, 300, or 400 mg of ofloxacin or after multiple oral doses of 400 mg.

Oral Dose	Serum Concentration 2 Hours After Admin. (mcg/mL)	Area Under the Curve (AUC <sub>(0 to ∞)</sub> ) (mcg•h/mL)
200 mg single dose	1.5	14.1
300 mg single dose	2.4	21.2
400 mg single dose	2.9	31.4
400 mg steady-state	4.6	61

Steady-state concentrations were attained after four oral doses, and the area under the curve (AUC) was approximately 40% higher than the AUC after single doses. Therefore, after multiple-dose administration of 200 mg and 300 mg doses, peak serum levels of 2.2 mcg/mL and 3.6 mcg/mL, respectively, are predicted at steady-state.

### In vitro, approximately 32% of the drug in plasma is protein bound.

The single dose and steady-state plasma profiles of ofloxacin injection were comparable in extent of exposure (AUC) to those of ofloxacin tablets when the injectable and tablet formulations of ofloxacin were administered in equal doses (mg/mg) to the same group of subjects. The mean steady-state AUC( $_{0.10}$  12) attained after the intravenous administration of 400 mg over 60 min was 43.5 mcg+l/mlt, the mean steady-state AUC( $_{0.10}$  12) attained after the oral administration of 400 mg was 41.2 mcg+l/mlt (two one-sided t-test, 90% confidence interval was 103 to 109) (see following chart).



Between 0 and 6 h following the administration of a single 200 mg oral dose of ofloxacin to 12 healthy volunteers, the average urine ofloxacin concentration was approximately 20 mcg/mL. Between 12 and 24 hours after administration, the average urine ofloxacin level was approximately 34 mcg/mL.

was approximately 34 mcg/mL. Following oral administration of recommended therapeutic doses, ofloxacin has been detecte in blister fluid, cervix, lung tissue, ovary, prostatic fluid, prostatic tissue, skin, and sputum. Th mean concentration of ofloxacin in each of these various body fluids and tissues after one c more doses was 0.8 to 1.5 times the concurrent plasma level, Inadequate data are presentl available on the distribution or levels of ofloxacin in the cerebrospinal fluid or brain tissue.

Offloxacin has a pyridobenzoxazine ring that appears to decrease the extent of parent compound metabolism. Between 65% and 80% of an administered oral dose of ofloxacin is excreted unchanged via the kidneys within 48 hours of dosing. Studies indicate that less than 5% of an administered dose is recovered in the urine as the desmethly or N-oxide metabolites. Four to eight percent of an ofloxacin dose is excreted in the feces. This indicates a small degree of

The administration of ofloxacin tablets with food does not affect the Cmax and AUC of the drug, but T<sub>may</sub> is prolonged

tions, but max is prototypes.

Clearance of offoxacin is reduced in patients with impaired renal function (creatinine clearance rate < 50 mt/min), and dosage adjustment is necessary (see PRECAUTIONS, General and DOSAGE AND ADMINISTRATION).

Following oral administration to healthy elderly subjects (65 to 81 years of age), maximum Following oral administration to healthy elderly subjects (65 to 81 years of age), maximum plasma concentrations are usually achieved one to two hours after single and multiple twicedaily doses, indicating that the rate of oral absorption is unaffected by age or gender. Mean peak plasma concentrations in elderly subjects were 9 to 21% higher than those observed in younger subjects. Gender differences in the pharmacokinetic properties of elderly subjects have been observed. Peak plasma concentrations were 114% and 54% higher in elderly females compared to elderly males following single and multiple twice-daily doses. [This interpretation was based on study results collected from two separate studies.] Plasma concentrations increase dose-dependently with the increase in doses after single oral dose and at steady-state. No differences were observed in the volume of distribution values between elderly and younger subjects. As in younger subjects, altinuation is mainly by renal excretion as unchanged drug in elderly subjects. Consistent with voluncer subjects. Emistents than 5% of an administered dose derly subjects, although less drug is recovered from renal istent with younger subjects, less than 5% of an administ was recovered in the urine as the desmethyl and N-oxide metabolites in the elderly. A longer plasma half-life of approximately 6.4 to 7.4 hours was observed in elderly subjects, compared with 4 to 5 hours for young subjects. Slower elimination of ofloxacin is observed in elderly with 4 of non-star lyoung suspects observe immanation be unscaled a suspect of the reduced renal function and renal clearance observed in the elderly subjects. Because ofloxacin is known to be substantially excreted by the kidney, and elderly patients are more likely to have decreased renal function, dosage adjustment is necessary for elderly patients with impaired renal function, scommended for all patients (see PRECAUTIONS, General and DOSAGE AND

### TUNCTION AS PECOMME

MICROBIOLOGY fluoroquinolone antimicrobials involves inhibition of bacterial topoisomerase IV and DNA gyrase (both of which are type II topoisomerases), enzymes required for DNA replication,

Ofloxacin has in vitro activity against a wide range of gram-negative and gram-positive microorganisms. Ofloxacin is often bactericidal at concentrations equal to or slightly greater than inhibitory concentrations.

Resistance to offoxacin due to spontaneous mutation  $in\ vitro$  is a rare occurrence (range: 10-9 to 10-11). Although cross-resistance has been observed between offoxacin and some other fluoroquinolones, some microorganisms resistant to other fluoroquinolones may be susceptible to offoxacin.

Ofloxacin has been shown to be active against most strains of the follo

Aerobic Gram-Positive Microorganisms
Staphylococcus aureus (methicillin-susceptible strains)
Streptococcus pneumoniae (penicillin-susceptible strains)

Streptococcus pvoaenes

Aerobic Gram-Negative Microorganisms

Klebsiella pneumoniae

Neisseria gonorrhoeae

As with other drugs in this class some strains of Pseudomonas aeruginosa may develon

### Other Microorganisms

The following in vitro data are available, but their clinical significance is unknown

Ofloxacin exhibits in vitro minimum inhibitory concentrations (MIC values) of 2 mcg/mL or less against most ( $\geq$  90%) strains of the following microorganisms; however, the safety and effectiveness of ofloxacin in treating clinical infections due to these microorganisms have not been established in adequate and well-controlled trials.

# Aerobic Gram-Positive Microorganisms Charly/coccus epidermidis (methicillin-susceptible strains)

aphylococcus epidermidis (methicillin-susceptible stra aphylococcus saprophyticus reptococcus pneumoniae (penicillin-resistant strains)

### Aerobic Gram-Negative Microorganisms

Proteus vulgaris Serratia marcescens

### Anaerobic Microorganisms

# Other Microorganisms

Chlamydia pneumonia Gardnerella vaginalis Legionella pneumoph Mucoplasma hominis Hreanlasma urealyticun

Ofloxacin is not active against Treponema pallidum (see WARNINGS).

Many strains of other streptococcal species, Enterococcus species, and anaerobes are resistant to ofloxacin.

### Suscentibility Tests

Dilution lechniques

Cuantitative methods are used to determine antimicrobial minimum inhibitory concentrations
(MIC values). These MIC values provide estimates of the susceptibility of bacteria to
antimicrobial compounds. The MIC values should be determined using a standardized
procedure. Standardized procedures are based on a dilution method.<sup>1,3</sup> (broth or agar) or
equivalent with standardized inoculum concentrations and standardized concentrations of
ofloxacin powder. The MIC values should be interpreted according to the following criteria:

For testing Enterobacteriaceae, methicillin-susceptible Staphylococcus aureus, and

MIC (mcg/mL)	Interpretation	
≤ 2	Susceptible (S)	
4	Intermediate (I)	
≥ 8	Resistant (R)	
or testing Haemophilus influenzae:a		
MIC (mcg/mL)	Interpretation	

This interpretive standard is applicable only to broth microdilution susceptibility tests with Haemophilus influenzae using Haemophilus Test Medium. 1.3

The current absence of data on resistant strains precludes defining any results other than "Susceptible." Strains yielding MIC results suggestive of a "nonsusceptible" category should be submitted to a reference laboratory for further testing.

### For testing Neisseria gonorrhoeae:b

MIC (mcg/mL)	Interpretation
≤ 0.25	Susceptible (S)
0.5 to 1	Intermediate (I)
≥ 2	Resistant (R)

b These interpretive standards are applicable only to agar dilution tests using GC agar base and 1% defined growth supplement incubated in 5% CO<sub>2</sub>. or testing Streptococcus pneumoniae and Streptococcus pyogenes:©

or testing orientococcas pheamoriae and orientococcas pyogenes.		
MIC (mcg/mL)	Interpretation	
≤ 2	Susceptible (S)	
4	Intermediate (I)	
≥ 8	Resistant (R)	

These interpretive standards are applicable only to broth microdilution susceptibility tests using cation-adjusted Mueller-Hinton broth with 2 to 5% lysed horse blood.

report of "Susceptible" indicates that the pathogen is likely to be inhibited if the artification of successful and the pations in steep to be imminute in the antimicrobial compound in the blood reaches the concentration usually achievable. A report of "Intermediate" indicates that the result should be considered equivocal, and, if the microorganism is not fully susceptible to alternative, clinically feasible drugs, the test should be repeated. This category implies possible clinical applicability in body sites where the drug is physiologically concentrated or in situations where a high dosage of drug can be used. This category also provides a buffer zone which prevents small uncontrolled technical factors. from causing major discrepancies in interpretation. A report of "Resistant" indicates that the pathogen is not likely to be inhibited if the antimicrobial compound in the blood reaches the concentration usually achievable; other therapy should be selected

Standardized susceptibility test procedures require the use of laboratory control microorganisms to control the technical aspects of the laboratory procedures. Standard offorcein power should require the fullowing MIC values:

<u>Microorganism</u>		MIC Range (mcg/mL)
Escherichia coli	ATCC 25922	0.015 to 0.12
Haemophilus influenzae	ATCC 49247d	0.016 to 0.06
Neisseria gonorrhoeae	ATCC 49226e	0.004 to 0.016
Pseudomonas aeruginosa	ATCC 27853	1 to 8
Staphylococcus aureus	ATCC 29213	0.12 to 1
Streptococcus pneumoniae	ATCC 49619f	1 to 4

- d This quality control range is applicable only to H. influenzae ATCC 49247 tested by a microdilution procedure using Haemophilus Test Medium (HTM).1.3
- This quality control range is applicable only to N. gonorrhoeae ATCC 49226 tested by an agar dilution procedure using GC agar base with 1% defined growth supplement incubated
- This quality control range is applicable only to *S. pneumoniae* ATCC 49619 tested by a microdilution procedure using cation-adjusted Mueller-Hinton broth with 2 to 5% lysed horse blood.

### Diffusion Technique

ds that require measurement of zone diameters also provide reproducible andes of the susceptibility of bacteria to antimicrobial compounds. One such sta edure<sup>2</sup> requires the use of standardized inoculum concentrations. This proce paper disks impregnated with 5 mcg ofloxacin to test the susceptibility of microorganis

Reports from the laboratory providing results of the standard single-disk susceptibility test with a 5 mcg ofloxacin disk should be interpreted according to the following criteria:

For testing Enterobacteriaceae, methicillin-susceptible Staphylococcus aureus, and

Zone Diameter (mm)	Interpretation	
≥ 16	Susceptible (S)	
13 to 15	Intermediate (I)	
≤ 12	Resistant (R)	

one Diameter (min)	Interpretation
: 16	Susceptible (S)
This zone diameter standard is applicable on	ly to disk diffusion tests with Haemon

9 This zone diameter standard is applicable only to disk diffusion tests with influenzae using Haemophilus Test Medium (HTM)<sup>2</sup> incubated in 5% CO<sub>2</sub> The current absence of data on resistant strains precludes defining any results other than "Susceptible." Strains yielding zone diameter results suggestive of a "nonsusceptible" category should be submitted to a reference laboratory for further testing.

For testing Neisseria gonorrhoeae:h Zone Diameter (mm)

≥ 31	Susceptible (S)
25 to 30	Intermediate (I)
£ 24	Resistant (R)
h These zone diameter standards are appli	cable only to disk diffusion tests using

Interpretation

GC agar base and 1% defined growth supplement incubated in 5% CO<sub>2</sub>.

For testing Streptococcus pneumoniae and Streptococcus pyogenes:

<u>Interpretation</u>
Susceptible (S)
Intermediate (I)
Resistant (R)

 These zone diameter standards are applicable only to disk diffusion tests performed using Mueller-Hinton agar supplemented with 5% defibrinated sheep blood and incubated in 5% CO<sub>2</sub>. Interpretation should be as stated above for results using dilution techniques. Interpretation involves correlation of the diameter obtained in the disk test with the MIC for ofloxacing

As with standardized dilution techniques, diffusion methods require the use of laborat control microorganisms that are used to control the technical aspects of the laborat procedures. For the diffusion technique, the 5 mcg ofloxacin disk should provide the follow zone diameters in these laboratory quality control strains:

<u>Microorganism</u>		Zone Diameter (mm)
Escherichia coli	ATCC 25922	29 to 33
		31 to 40
Neisseria gonorrhoeae	ATCC 49226k	43 to 51
Pseudomonas aeruginosa	ATCC 27853	17 to 21
Staphylococcus aureus	ATCC 25923	24 to 28
Streptococcus pneumoniae	ATCC 49619 <sup>1</sup>	16 to 21

- j This quality control range is applicable only to H. influenzae ATCC 49247 tested by a disk diffusion procedure using Haemophilus Test Medium (HTM)<sup>2</sup> incubated in 5% CO<sub>2</sub>.
- k This quality control range is applicable only to *N. gonorrhoeae* ATCC 49226 tested by a disk diffusion procedure using GC agar base with 1% defined growth supplement incubated in 5% CO<sub>2</sub>.
- This quality control range is applicable only to S. pneumoniae ATCC 49619 tested by a sheep blood and incubated in 5% CO<sub>2</sub>.

sneep blood and includated in 5% CU2.

MIDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of ofloxacin tablets and other antibacterial drugs, ofloxacin tablets should be used only to trea 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 considered in selecting or modifying antibacterial threapy, in the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

Ofloxacin tablets are indicated for the treatment of adults with mild to moderate infections (unless otherwise indicated) caused by susceptible strains of the designated microorganisms in the infections listed below. Please see DOSAGE AND ADMINISTRATION for specific

Acute Racterial Exacerbations of Chronic Bronchitis due to Haemonhilus influenzae or

Community-Acquired Pneumonia due to Haemophilus influenzae or Streptococcus pneumoniae Uncomplicated Skin and Skin Structure Infections due to methicillin-susceptible Stanbulggoggus auraus Stranbulggoggus auraus Stranbulggog

Acute, Uncomplicated Urethral and Cervical Gonorrhoa due to Neisseria gonorrhoeae (see WARNINGS).

Nongonococcal Urethritis and Cervicitis due to *Chlamydia trachomatis* (see WARNINGS). Mixed Infections of the Urethra and Cervix due to Chlamvdia trachomatis and Neisseria

eae (see WARNINGS) Acute Pelvic Inflammatory Disease (including severe infection) due to Chlamydia trachomatis and/or Neisseria gonorrhoeae (see WARNINGS).

NOTE: If anaerobic microorganisms are suspected of contributing to the infection, appropriate therapy for anaerobic pathogens should be administered.

Uncomplicated Cystitis due to Citrobacter diversus, Enterobacter aerogenes, Escherichia coli Klabsiella pneumoniae Proteus mirabilis or Pseudomonas aeruginosa Complicated Urinary Tract Infections due to Escherichia coli. Klebsiella pneumoniae

Prostatitis due to Escherichia coli.

\* = Although treatment of infections due to this organism in this organ system demonstrated a clinically significant outcome, efficacy was studied in fewer than 10 patient

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 oftoxacin, USP may be initiated before results of these tests are known; once results become available, appropriate therapy should be continued. As with other drugs in this class, some strains of Pseudomonas aeruginosa may develop

As with other fully in this case, some strains or resolvational and upinosa may useruli, resistance fairly rapidly during treatment with ofloxacin, USP. Culture and susceptibility testing performed periodically during therapy will provide information not only on the therapeuti effect of the antimicrobial agent but also on the possible emergence of bacterial resistance. CONTRAINDICATIONS

CONTAINDICATIONS
Officials tablets are contraindicated in persons with a history of hypersensitivity associated with the use of officiacin or any member of the quinolone group of antimicrobial agents. WARNINGS Tendinopathy and Tendon Rupture

Tendinopathy and Tendon Rupture
Fluoroquinolones, including ofloxacin, are associated with an increased risk of tendinitis
and tendon rupture in all ages. This adverse reaction most frequently involves the Achilles
tendon, and rupture of the Achilles tendon may require surgical repair. Tendinitis and tendon
rupture in the rotator cuff (the shoulder), the hand, the bicesp, the thumh, and other tendons
have also been reported. The risk of developing fluoroquinolone-associated tendinitis and
tendon rupture is further increased in older patients usually over 60 years of age, in those
taking corticosteroid drugs, and in patients with kidney, heart or lung transplants. Factors,
in addition to age and corticosteroid use, that may independently increase the risk of tendon
rupture include strenuous physical activity, renal failure, and previous tendon disorders such
as rheumatoid arthritis. Tendinitis and tendon rupture have been reported in patients taking
fluoroquinolones who do not have the above risk factors. Tandon nutrue can occur during or fluoroguinolones who do not have the above risk factors. Tendon rupture can occur during o after completion of therapy; cases occurring up to several months after completion of therapy have been reported. Ofloxacin should be discontinued if the patient experiences pain, swelling, inflammation or rupture of a tendon. Patients should be advised to rest at the first sign of tendinitis or tendon rupture, and to contact their healthcare provider regarding changing to a non-quinolone antimicrobial drug.

### THE SAFETY AND FFFICACY OF OFLOXACIN IN PEDIATRIC PATIENTS AND ADDIESCENTS UNDER THE AGE OF 18 YEARS), PREGNANT WOMEN, AND LACTATING WOMEN HAVE NOT BEEN ESTABLISHED (see PRECAUTIONS, Pediatric Use, Pregnancy, and Nursing Mothers Subsections)

ESTABLISHED (See PRECAUTIONS, Pediatric Use, Preginancy, and Nursing Monters Subset in the immature rat, the oral administration of ofloxacin at 5 to 16 times the recomm maximum human dose based on mg/kg or 1 to 3 times based on mg/m² increased the inc and severity of osteochondrosis. The lesions did not regress after 13 weeks of drug with Other quinolones also produce similar erosions in the weight-bearing joints and other si arthropathy in immature animals of various species (see ANIMAL PHARMACOLOGY).

Exacerbation of Myasthenia Gravis
Fluoroquinolones, including ofloxacin, have neuromuscular blocking activity and may
exacerbate muscle weakness in persons with myasthenia gravis. Postmarketing serious
adverse events, including deaths and requirement for ventilatory support, have been associated
with fluoroquinolone use in persons with myasthenia gravis. Avoid ofloxacin in patients
with known history of myasthenia gravis (see PRECAUTIONS, Information for Patients and
ADVERSE REACTIONS, Postmarketing Adverse Events).

psychosis have been reported in patients receiving quinolones, including offoxacin. Quinolones, including offoxacin, may also cause central nervous system stimulation which may lead to: tremors, restlessness/agitation, nervousness/anxiely, lightheadedness, confusion, hallucinations, paranoia and depression, nightmares, insomnia, and rarely suicidal thoughts or acts. These reactions may occur following the first dose. If these reactions occur in patients receiving offoxacin, the drug should be discontinued and appropriate measures instituted. Insomnia may be more common with offoxacin than some other products in the quinolone class. As with all quinolones, offoxacin should be used with caution in patients with a known or suspected CNS disorder that may predispose to seizures or lower the seizure threshold (e.g., severe cerebral arteriosclerosis, epilepsy) or in the presence of other risk factors that ava medispose to seizures or lower the seizure threshold (e.g., catario frum therapy, renal ava medispose to seizures or lower the seizure threshold (e.g., catario frum therapy, renal nay predispose to seizures or lower the seizure threshold (e.g., certain drug therapy, rena hysfunction) (see **PRECAUTIONS**, **General**, **Information for Patients**, **Drug Interactions** and

### Hypersensitivity Reactions

us and occasionally latar hypersensitivity analytic anaphylactic reactions have been reported tents receiving therapy with quinolones, including ofloxacin. These reactions often occ ring the first dose. Some reactions have been accompanied by cardiovascular collaps following the first dose. Some reactions have been accompanied by cardiovascular collapse, hypotension/shock, seizure, loss of consciousness, tingling, angioedema (including tongue, laryngad, throat, or facial edema/swelling), airway obstruction (including bronchospasm, shortness of breath, and acute respiratory distress), dyspnea, urticaria, ktching, and other serious skin reactions. This drug should be discontinued immediately at the first appearance of a skin rash or any other sign of hypersensitivity. Serious acute hypersensitivity reactions may require treatment with epinephrine and other resuscitative measures, including oxygen, intravenous fluids, antibistamines, corticosteroids, pressor amines, and airway management, as clinically indicated (see PRECAUTIONS and ADVERSE REACTIONS).

- interstitial nephritis; acute renal insufficiency or failure;
- anemia, including hemolytic and aplastic; thrombocytopenia, including thrombotic thrombocytopenic purpura; leukopenia; agranulocytosis; pancytopenia; and/or othe hematologic abnormalities

### Peripheral Neuropathy

ripneral neuropathy ses of sensory or sensorimotor axonal polyneuropathy affecting small and/or large axons Cases of sensory or sensorimotor axional polyneuropathy arrecting small annor range axions resulting in paresthesias, hyposethesias, dysesthesias and weakness have been reported in patients receiving fluoroquinolones, including ofloxacin. Symptoms may occur soon after initiation of ofloxacin and may be irreversible. Ofloxacin should be discontinued immediately if the patient experiences symptoms of neuropathy including pain, burning, tingling, numbness, and/or weakness or other alterations in sensations including light touch, pain, temperature, position sense, and vibratory sensation.

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all

C. difficile produces toxins A and B which contribute to the development of CDAD. Hypertoxi containing produces dwist A and b wind continuous for the development of CDAD rypertoxin orducing strains of C. difficile cause increased morbidity and mortality, as these infections car or efractory to antimicrobial therapy and may require colectomy. CDAD must be considered all patients who present with diarrhea following antibiotic use. Careful medical history is ecessary since CDAD has been reported to occur over two months after the administration. of antibacterial agents.

If ODA) is suspected or commined, ongoing antibiotic use not directed against *c.* may need to be discontinued. Appropriate fluid and electrolyte management, supplementation, antibiotic treatment of *c. difficile*, and surgical evaluation should be it as clinically indicated (see **ADVERSE REACTIONS**).

### Offoxacin has not been shown to be effective in the treatment of syphilis.

Antimicrobial agents used in high doses for short periods of time to treat gonorrhea may mask or delay the symptoms of incubating syphilis. All patients with gonorrhea should have a serologic test for syphilis at the time of diagnosis. Patients treated with ofloxacin for gonorrhea should have a follow-up serologic test for syphilis after three months and, if positive, treatment with an appropriate antimicrobial should be instituted.

Veneral prescribing ofloxacin tablets in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

Administer ofloxacin with caution in the presence of renal or hepatic insufficiency/impairment In patients with known or suspected renal or hepatic insufficiency/impairment, careful clinical observation and appropriate laboratory studies should be performed prior to and during therapy since elimination of ofloxacin may be reduced. In patients with impaired renal contents of the patients of the patients with impaired renal contents of the patients with th unction (creatinine clearance ≤ 50 mg/mL), alteration of the dosage regimen is necessar see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION).

Moderate to severe photosensitivity/phototoxicity reactions, the latter of which may mountained to severe protocessistivity protocolously reactions, the latter of wind may manifest as exaggerated sunburn reactions (e.g., burning, erythema, exudation, vesicles, blistering, edema) involving areas exposed to light (typically the face, "V" area of the neck, extensor surfaces of the forearms, dorsa of the hands), can be associated with the use of quinolones after sun or UV light exposure. Therefore, excessive exposure to these sources of light should be avoided. Drug therapy should be discontinued if photosens whototoxicity occurs (see ADVERSE REACTIONS, Postmarketing Adverse Events)

A possible interaction between oral hypoglycemic drugs (e.g., glyburide/glibe with insulin and fluoroquinolone antimicrobial agents have been reported resulting in a tentiation of the hypoglycemic action of these drugs. The mechanism for this interaction not known. If a hypoglycemic reaction occurs in a patient being treated with offoxacin, scontinue offoxacin immediately and consult a physician (see **Drug Interactions** and ADVERSE REACTIONS)

As with any potent drug, periodic assessment of organ system functions, including renal, hepatic, and hematopoietic, is advisable during prolonged therapy (see WARNINGS and ADVERSE REACTIONS). Torsade de Pointes

nes, including ofloxacin, have been associated with prolongation of the O

Some Quindones, Inicioring orioxacini, riave uden associated wini prionigiation of the Val-interval on the electrocardiogram and infrequent cases of arrhythmia. Rare cases of forsade de pointes have been spontaneously reported during postmarketing surveillance in patients receiving quinolones, including ofloxacin. Ofloxacin should be avoided in patients with known prolongation of the QT interval, patients with uncorrected hypokalemia, and patients receiving Class IA (quinidine, procainamide), or Class III (amiodarone, sotalol) antiarrhythmic agents. Information for Patients
Patients should be advised

to contact their healintaile provider in they experience pain, swelling, or liminalinitation of tendon, or weakness or inability to use one of their joints; rest and refrain from exercise; and discontinue offioxacin treatment. The risk of severe tendon disorders with fluoroquinolones; higher in older patients usually over 60 years of age, in patients taking corticosteroid drugs

that antibacterial drugs including ofloxacin tablets should only be used to treat bacterial

 that peripheral neuropathies have been associated with ofloxacin use, that symptoms may occur soon after initiation of therapy and may be irreversible. If symptoms of peripheral neuropathy including pain, burning, tingling, numbness, and/or weakness develop, they should discontinue ofloxacin and contact their physician;

that mineral supplements, vitamins with iron or minerals, calcium-, aluminum- or magnesium-based antacids, sucralitate or didanosine, chewable/buffered tablets or the pediatric powder for oral solution should not be taken within the two-hour period before or within the two-hour period after taking ofloxacin (see Drug Interactions);

- that ofloxacin can be taken without regard to meals;
- that ofloxacin may cause neurologic adverse effects (e.g., dizziness, lightheadedness) and that patients should know how they react to ofloxacin before they operate an automobile or machinery or engage in activities requiring mental alertness and coordination (see WARNINGS and ADVERSE REACTIONS);
- that offoxacin may be associated with hypersensitivity reactions, even following the first dose, to discontinue the drug at the first sign of a skin rash, hives or other skin reactions, a rapid heartbeat, difficulty in swallowing or breathing, any swelling suggesting angioedema (e.g., swelling of the lips, tongue, face; tightness of the throat, hoarseness), or any other symptom of an allergic reaction (see WARNINGS and ADVERSE REACTIONS);
- that photosensitivity/phototoxicity has been reported in patients receiving q antibiotics. Patients should minimize or avoid exposure to natural or artificial sunlight (tanning beds or UVAB treatment) while taking quinolones. If patients need to be outdoors while using quinolones, they should wear loose-fitting clothes that protect skin from sun exposure and discuss other sun protection measures with their physician. If a sunburn-like reaction or skin eruption occurs, patients should contact their physician;
- that if they are diabetic and are being treated with insulin or an oral hypoglycemic drug, to discontinue ofloxacin immediately if a hypoglycemic reaction occurs and (see PRECAUTIONS, General and Drug Interactions);
- that convulsions have been reported in patients taking quinolones, including ofloxacin, and to notify their physician before taking this drug if there is a history of this condition;
- that diarrhea is a common problem caused by antibiotics which usually ends when the antibiotic is discontinued. Sometimes after starting treatment with antibiotics, patients can develop watery and bloody stools (with or without stomach cramps and fever) even as late as two or more months after having taken the last dose of the antibiotic. If this occurs, patients should contact their physician as soon as possible;
- to inform their physician da suord as possible;
   to inform their physician of any personal or family history of QT<sub>C</sub> prolongation or proarrhythmic conditions such as hypokalemia, bradycardia, or recent myocardial ischemia; if they are taking any class IA (quinidine, procainamide), or class III (amiodarone, sotaloi) antiarrhythmic agents. Patients should notify their physicians if they have any symptoms of prolongation of the QT<sub>C</sub> interval including prolonged heart palpitations or a loss of consciousness.

Interval including profungeu near paginations or a 100 of 0.000 of agents should not be taken within the two-hour period before or within the two-hour period after ofloxacin administration (see **DOSAGE AND ADMINISTRATION**).

Caffeine
Interactions between ofloxacin and caffeine have not been detected. Cimetidine CImetidine (Cimetidine has demonstrated interference with the elimination of some quinolones. This interference has resulted in significant increases in half-life and AUC of some quinolones. The

## potential for interaction between ofloxacin and cimetidine has not been studied

Cyclosporine
Flevated serum levels of cyclosporine have been reported with concomitant use of cyclosporine

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\*\*Prugs Metabolized by Cytochrome P450 Enzymes\*\*

Most quinolone antimicrobial drugs inhibit cytochrome P450 enzyme activity. This may result in a prolonged half-life for some drugs that are also metabolized by this system (e.g., cyclosporine, theophylline/methybxantines, warfarin) when coadministered with quinolones. The extent of this inhibition varies among different quinolones (see other Drug Interactions).

Non Steroidal Anti-Inflammatory Drugs
The concomitant administration of a non-steroidal anti-inflammatory drug with a quinolone, including ofloxacin, may increase the risk of CNS stimulation and convulsive seizures (see WARNINGS and PRECAUTIONS, General).

# Probenecid The concomitant use of probenecid with certain other quinolones has been reported to

Warfarin

Theophylline
Steady-state theophylline levels may increase when ofloxacin and theophylline are administered concurrently. As with other quinolones, concomitant administration of ofloxacin may prolong the half-life of theophylline, elevate serum theophylline levels, and increase the risk of theophylline-related adverse reactions. Theophylline levels should be closely monitored and theophylline dosage adjustments made, if appropriate, when ofloxacin is coadministered. Adverse reactions (including seizures) may occur with or without an elevation in the serum theophylline level (see WARNINGS and PRECAUTIONS, General).

# Wartarin Some quinolones have been reported to enhance the effects of the oral anticoagulant warfarin or its derivatives. Therefore, if a quinolone antimicrobial is administered concomitantly with warfarin or its derivatives, the prothrombin time or other suitable coagulation test should be electromedical.

Antidiabetic Agents (e.g., Insulin, Glyburide/Glibenclamide) disturbances of blood glucose, including hyperglycemia and hypoglycemia, have been ted in patients treated concurrently with quinolones and an antidiabetic agent, careful pring of blood glucose is recommended when these agents are used concomitantly (see

### PRECAUTIONS. General and Information for Patients)

Interaction With Laboratory or Diagnostic Testing
Some quinolones, including offoxacin, may produce false-positive urine screening results for opiates using commercially available immunoassay kits. Confirmation of positive opiate screens by more specific methods may be necessary.

Carcinogenesis, Mutagenesis, Impairment of Fertility
Long-term studies to determine the carcinogenic potential of ofloxacin have not been conducted. Offoxacin was not mutagenic in the Ames bacterial test, *in vitro* and *in vivo* cytogenetic assay, sister chromatid exchange (Chinese Hamster and Human Cell Lines), unscheduled DNA Repair (UDS) using human fibroblasts, dominant lethal assays, or mouse micronucleus assay. Offoxacin was positive in the UDS test using rat hepatocytes and Mouse Lymphoma Assay.

Pregnancy Category C

Offloxacin has not been shown to have any teratogenic effects at oral doses as high as 810 mg/kg/day (11 times the recommended maximum human dose based on mg/m² or 50 times based on mg/kg) and 160 mg/kg/day (4 times the recommended maximum human dose based on mg/m² or 10 times based on mg/kg) when administered to pregnant rats and rabbits, respectively. Additional studies in rats with oral doses up to 360 mg/kg/day (5 times the recommended maximum human dose based on mg/m² or 23 times become accomplication of the programment of the prog based on mg/kg) demonstrated no adverse effect on late fetal development, labor, delivery based on mg/kg) demonstrated no adverse effect on late fetal development, labor, delivery, lactation, neonatal viability, or growth of the newborn. Dosse equivalent to 50 and 10 times the recommended maximum human dose of ofloxacin (based on mg/kg) were fetotoxic (i.e., decreased fetal body weight and increased fetal mortality) in rats and rabbits, respectively. Minor skeletal variations were reported in rats receiving doses of 810 mg/kg/day, which is more than 10 times higher than the recommended maximum human dose based on mg/m². There are, however, no adequate and well-controlled studies in pregnant women. Ofloxacin should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus (see WARNINGS).

Nursing Mothers
In lactating females, a single oral 200 mg dose of ofloxacin resulted in concentrations of ofloxacin in milk that were similar to those found in plasma. Because of the potential for serious adverse reactions from ofloxacin in nursing infants, a decision should be made whether to discontinue nursing or to discontinue nursing or to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother (see WARNINGS and ADVERSE REACTIONS). not been established. Ofloxacin causes arthropathy (arthrosis) and osteocho animals of several species (see **WARNINGS**).

### Geriatric Use ents are at increased risk for developing severe tendon disorders including tendor

rupture when being treated with a fluoroguinolone such as ofloxacin. This risk is furthe 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 have been reported. Caution should be used when prescribing offoxacin to elderly patients especially those on corticosteroids. Patients should be informed of this potential side effect and advised to discontinue offoxacin and contact their healthcare provider if any symptoms of tendinits or tendon rupture occur (see Boxed Warning; WARNINGS; and ADVERSE REACTIONS, Postmarketing Adverse Event Reports).

# Reference ID: 3487186





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Central Nervous System Effects: Convulsions, increased intracranial pressure, (including pseudotumor cerebri), and toxic psychosis have been reported in patients receiving quinolones, including ofloxacin.

Other serious and sometimes fatal events, some due to hypersensitivity, and some due to

uncertain etiology, have been reported rarely in patients receiving therapy with quinolones, including ofloxacin. These events may be severe and generally occur following the administration of multiple doses. Clinical manifestations may include one or more of the rash, or severe dermatologic reactions (e.g., toxic epidermal necrolysis,

• vasculitis; arthralgia; myalgia; serum sickness;

· allergic pneumonitis:

henatitis: iaundice; acute hepatic necrosis or failure;

nematologic annormatines.

The drug should be discontinued immediately at the first appearance of skin rash jaundice, or any other sign of hypersensitivity and supportive measures instituted (see PRECAUTIONS), Information for Patients and ADVERSE REACTIONS).

obstrainant unique associaced unique (Cobar) las usern reported whit use of riediny an antibacterial agents, including offoxacin tablets, and may range in severity from mild diarrhea to fatal collits. Treatment with antibacterial agents afters the normal flora of the colon leading to overgrowth of *C. difficile*.

PRECAUTIONS

Adequate hydration of patients receiving ofloxacin should be maintained to prevent the

As with other quinolones, ofloxacin should be used with caution in any patient with a known or suspected CNS disorder that may predispose to seizures or lower the seizure threshold (e.g., severe cerebral arteriosclerosis, epilepsy) or in the presence of other risk factors that may predispose to seizures or lower the seizure threshold (e.g., certain drug therapy, renal dysfunction) (see WARNINGS and Drug Interactions).

is should be advised: ontact their healthcare provider if they experience pain, swelling, or inflammation of a

that fluoroquinolones like ofloxacin may cause worsening of myasthenia gravis symptol including muscle weakness and breathing problems. Patients should call their healthc provider right away if you have any worsening muscle weakness or breathing problems;

infections. They do not treat viral infections (e.g., the common cold). When offloxacin tablets are prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may (1) decrease the effectiveness of the immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by offloxacin tablets or other antibacterial drugs in the future;

to drink fluids liberally:

In phase 2/3 clinical trials with ofloxacin, 688 patients (14.2%) were ≥ 65 years of age. Of In phase 2/3 clinical trials with ofloxacin, 688 patients (14.2%) were ≥ 65 years of age. Of these, 436 patients (9%) were between the ages of 65 and 74 and 252 patients (5.2%) were 75 years or older. There was no apparent difference in the frequency or severity of adverse reactions in elderly adults compared with younger adults. The pharmacokinetic properties of ofloxacin in elderly subjects are similar to those in younger subjects. Drug absorption appears to be unaffected by age. Dosage adjustment is necessary for elderly patients with impaired renal function (creatinine clearance area ≤ 50 mL/min) due to reduced clearance of ofloxacin. In comparative studies, the frequency and severity of most drug-related nervous system events in patients ≥ 65 years of age were comparable for ofloxacin and control drugs. The only differences identified were an increase in reports of incomnia (3.9% vs. 1.5%) and headache (4.7% vs. 1.8%) with ofloxacin. It is important to note that these geriatric safet inequation (4.7 % %). To %) with obstacling its important to inter that these generates sarely data are extracted from 44 comparative studies where the adverse reaction information from 20 different controls (other antibiotics or placebo) were pooled for comparison with offoxacin The clinical significance of such a comparison is not clear (see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION).

allo DUSAGE AND ADMINISTRATION).

Elderly patients may be more sensitive to drug-associated effects on the QT interval. Therefore, precaution should be taken when using offoxacin with concomitant drugs that can result in prolongation of the QT interval (e.g., Class IA or Class III antiarrhythmics) or in patients with risk factors for torsade de pointes (e.g., known QT prolongation, uncorrected hypokalemia) (see PRECAUTIONS, General, Torsade de Pointes).

ADVENSE FLACTIONS

The following is a compilation of the data for offoxacin based on clinical experience with both the oral and intravenous formulations. The incidence of drug-related adverse reactions in patients during Phase 2 and 3 clinical trials was 11%. Almong patients receiving multiple-dose therapy, 4% discontinued offoxacin due to adverse experiences.

In clinical trials, the following events were considered likely to be drug-related in patients

nausea 3%, insomnia 3%, headache 1%, dizziness 1%, diarrhea 1%, vomiting 1%, rash 1%, pruritus 1%, external genital pruritus in women 1%, vaginitis 1%, dysgeusia 1%.

In clinical trials, the most frequently reported adverse events, regardless of relationship to

aussa 10%, headache 9%, insomnia 7%, external genital pruritus in women 6%, dizziness 5%, vaginitis 5%, diarrhea 4%, vomiting 4%. In clinical trials, the following events, regardless of relationship to drug, occurred in 1 to 3%

abdominal pain and cramps, chest pain, decreased appetite, dry mouth, dysgeusia, fatigue, flatulence, gastrointestinal distress, nervousness, pharynglits, pruritus, fever, rash, sleep disorders, somnolence, trunk pain, vaginal discharge, visual disturbances, and constipation. Additional events, occurring in clinical trials at a rate of less than 1%, regardless of

Body as a Whole:	asthenia, chills, malaise, extremity pain, pain, epistaxis
Cardiovascular System:	cardiac arrest, edema, hypertension, hypotension, palpitations, vasodilation
Gastrointestinal System:	dyspepsia
Genital/Reproductive System:	burning, irritation, pain and rash of the female genitalia; dysmenorrhea; menorrhagia; metrorrhagia
Musculoskeletal System:	arthralgia, myalgia
Nervous System:	seizures, anxiety, cognitive change, depression, dream abnormality, euphoria, hallucinations, paresthesia, syncope, vertigo, tremor, confusion
Nutritional/Metabolic:	thirst, weight loss
Respiratory System:	respiratory arrest, cough, rhinorrhea
Skin/Hypersensitivity:	angioedema, diaphoresis, urticaria, vasculitis
Special Senses:	decreased hearing acuity, tinnitus, photophobia
Urinary System:	dysuria, urinary frequency, urinary retention
The following laboratory abnormalities appeared in ≥ 1% of patients receiving multiple dose	

of ofloxacin. It is not known whether these abnormalities were caused by the drug or the

Hematopoietic:	anemia, leukopenia, leukocytosis, neutropenia, neutrophilia, increased band forms, lymphocytopenia, eosinophilia, lymphocytosis, thrombocytopenia, thrombocytosis, elevated ESR
Hepatic:	elevated: alkaline phosphatase, AST (SGOT), ALT (SGPT)
Serum Chemistry:	hyperglycemia, hypoglycemia, elevated creatinine, elevated BUN
Urinary:	glucosuria, proteinuria, alkalinuria, hyposthenuria, hematuria, pyuria

Additional adverse events, regardless of relationship to drug, reported from worldwide marketing experience with quinolones, including ofloxacin:

Clinical	
Cardiovascular System:	cerebral thrombosis, pulmonary edema, tachycardia, hypotension/shock, syncope, torsade de pointes
Endocrine/Metabolic:	hyper- or hypoglycemia, especially in diabetic patients on insulin or oral hypoglycemic agents (see <b>PRECAUTIONS</b> , <b>General</b> and <b>Drug Interactions</b> ).
Gastrointestinal System:	hepatic dysfunction including: hepatic necrosis, jaundice (cholestatic or hepaticellular), hepatitis; intestinal perforation; hepatic failure (including fatal cases); pseudomembranous colitis; (the onset of pseudomembranous colitis symptoms may occur during or after antimicrobial treatment), GI hemorrhage; hiccough, painful oral mucosa, pyrosis (see WaRNINGS).
Genital/Reproductive System:	vaginal candidiasis
Hematopoietic:	anemia, including hemolytic and aplastic; hemorrhage, pancytopenia, agranulocytosis, leukopenia, reversible bone marrow depression, thrombocytopenia, thrombotic thrombocytopenic purpura, petechiae, ecchymosis/bruising (see WARNINGS).
Musculoskeletal:	tendinitis/rupture; weakness; rhabdomyolysis (see WARNINGS).
Nervous System:	niphtmares; suicidal thoughts or acts, disorientation, psychotic reactions, paranois; phobia, aglation, restlessness, aggressiveness/hostility, manic reaction, emotional lability, peripheral neuropathy that may be irreversible, ataxia, incoordination, exacerbation of: myasthenia gravis and extrapyramidal disorders; dysphasia, lightheadedness (see WARNIMGS and PRECAUTIONS).
Respiratory System:	dyspnea, bronchospasm, allergic pneumonitis, stridor (see WARNINGS).
Skin/Hypersensitivity:	anaphylactic (-toid) reactions/shock; purpura, serum sickness, erythema multiforme/Stevens-Johnson syndrome, erythema nodosum, exfoliative dermatitis, hyperpigmentation, toxic epidermal necrolysis, conjunctivits, photosensitivity/phototoxicity reaction, vesiculobullous eruption (see WARNINGS and PRECAUTIOMS).
Special Senses:	diplopia, nystagmus, blurred vision, disturbances of: taste, smell, hearing and equilibrium, usually reversible following discontinuation
Urinary System:	anuria, polyuria, renal calculi, renal failure, interstitial nephritis, hematuria (see WARNINGS and PRECAUTIONS).
Laboratory	
Hematopoietic:	prolongation of prothrombin time
Serum Chemistry:	acidosis, elevation of: serum triglycerides, serum cholesterol, serum potassium, liver function tests including: GGTP, LDH, bilirubin

In clinical trials using multiple-dose therapy, ophthalmologic abnormalities, including cataracts and multiple punctate lenticular opacities, have been noted in patients undergoing treatment with othe quinolones. The relationship of the drugs to these events is not presently established. CRYSTALLURIA and CYLINDRURIA HAVE BEEN REPORTED with other quinolones.

albuminuria, candiduria

### OVERDOSAGE

Urinary:

nformation on overdosage with ofloxacin is limited. One incident of accidental overdosage Information on overdosage with ofloxacin is limited. One incident of accidental overdosage has been reported. In this case, an adult female received 3 grams of ofloxacin intravenously over 45 minutes. A blood sample obtained 15 minutes after the completion of the influsion revealed an ofloxacin level of 93.9 mcg/ml. In 7 h, the level had fallen to 16.2 mcg/ml., and by 24 h to 2.7 mcg/ml. During the influsion, the patient developed drowsiness, nausea, dizziness, hot and cold flushes subjective facial swelling and numbness, sluring of speech, and mild to moderate disorientation. All complaints except the dizziness subsided within 1 h after discontinuation of the influsion. The dizziness, most bothersome while standing, resolved in approximately 9 h. Laboratory testing reportedly revealed no clinically significant changes in routine parameters in this national.

Reference ID: 3487186

In the event of an acute overdose, the stomach should be emptied. The patient should be observed and appropriate hydration maintained. Ofloxacin is not efficiently removed by hemodialysis or pertinoal dialysis. DOSAGE AND ADMINISTRATION

DUSAGE AND ADMINISTRATION. The usual dose of ofloxacin tablets is 200 mg to 400 mg orally every 12 h as described in the following dosing chart. These recommendations apply to patients with normal renal function (i.e., creatinine clearance > 50 mL/min). For patients with altered renal function (i.e., creatinine).

clearance ≤ 50 mL/min), see the Patients With Impaired Renal Function subsection.					
Infection†	Unit Dose	Frequency	Duration	Daily Dose	
Acute Bacterial Exacerbation of Chronic Bronchitis	400 mg	q12h	10 days	800 mg	
Comm. Acquired Pneumonia	400 mg	q12h	10 days	800 mg	
Uncomplicated Skin and Skin Structure Infections	400 mg	q12h	10 days	800 mg	
Acute, Uncomplicated Urethral and Cervical Gonorrhea	400 mg	single dose	1 day	400 mg	
Nongonococcal Cervicitis/ Urethritis Due to <i>C. Trachomatis</i>	300 mg	q12h	7 days	600 mg	
Mixed Infection of the Urethra and Cervix Due to <i>C. Trachomatis</i> and <i>N. Gonorrhoeae</i>	300 mg	q12h	7 days	600 mg	
Acute Pelvic Inflammatory Disease	400 mg	q12h	10 to 14 days	800 mg	
Uncomplicated Cystitis Due to E. Coli or K. Pneumoniae	200 mg	q12h	3 days	400 mg	
Uncomplicated Cystitis Due to Other Approved Pathogens	200 mg	q12h	7 days	400 mg	
Complicated UTI's	200 mg	q12h	10 days	400 mg	
Prostatitis Due to E. Coli	300 mg	q12h	6 weeks	600 mg	

† DUE TO THE DESIGNATED PATHOGENS (See INDICATIONS AND USAGE)

Antacids containing calcium, magnesium, or aluminum; sucralfate; divalent or trivalent cations such as iron; or multivitamins containing zinc; or didanosine, chewable/buffered tablets or the pediatric powder for oral solution should not be taken within the two-hour period after taking ofloxacin (see PRECAUTIONS).

Patients With Impaired Renal Function
Dosage should be adjusted for patients with a creatinine clearance  $\leq 50$  mL/min.
After a normal initial dose, dosage should be adjusted as follows:

Creatinine Clearance	Maintenance Dose	Frequency		
20 to 50 mL/min	the usual recommended unit dose	q24h		
< 20 mL/min	1/2 the usual recommended unit dose	q24h		
When only the serum creatinine is known, the following formula may be used to estima creatinine clearance.				

Men: Creatinine clearance (mL/min) = Weight (kg) x (140 - age)

72 x serum creatinine (mg/dL) Women: 0.85 x the value calculated for men.

The serum creatinine should represent a steady-state of renal function

Patients With Cirrhosis
The excretion of ofloxacin may be reduced in patients with severe liver function disorders

The excretion of ofloxacin may be reduced in patients with severe liver function disorders. (e.g., cirrhosis with or without ascites). A maximum dose of 400 mg of ofloxacin per day should therefore not be exceeded.

Offoxacin tablets, 200 mg are available as light-yellow, film-coated, oval-shaped tablets, with "93" on one side and "7180" on the other. They are available in bottles of 100 tablets. Ofloxacin tablets, 300 mg are available as white to off-white, film-coated, oval-shaped tablets, debossed with "93" on one side and "7181" on the other. They are available in bottles of 100 tablets.

Ofloxacin tablets, 400 mg are available as pale-gold, film-coated, oval-shaped tablets, debossed with "93" on one side and "7182" on the other. They are available in bottles of 100 tablets. Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Dispense in a tight, light-resistant container as defined in the USP, with a child-resistant

### KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN

### ANIMAL PHARMACOLOGY

ANIMAL PHARMACOLOGY
Offloxacin, as well as other drugs of the quinolone class, has been shown to cause arthropathies (arthrosis) in immature dogs and rats. In addition, these drugs are associated with an increased incidence of osterochondrosis in rats as compared to the incidence observed in vehicle-treated rats (see WARNINGS). There is no evidence of arthropathies in fully mature dogs at intravenous doses up to 3 times the recommended maximum human dose (on a mg/m² basis or 5 times based on mg/kg basis), for a one-week exposure period.

Long-term, high-dose systemic use of other quinolones in experimental animals has caused lenticular opacities; however, this finding was not observed in any animal studies with

Reduced serum globulin and protein levels were observed in animals treated with other quinolones. In one ofloxacin study, minor decreases in serum globulin and protein levels were noted in lemale cynomoligus monkeys dosed orally with 40 mg/kg ofloxacin daily for one year. These changes, however, were considered to be within normal limits for monkeys. Crystalluria and ocular toxicity were not observed in any animals treated with ofloxacin.

- Crystaluria and usual colony, such as the REFERENCE S

  1. Clinical and Laboratory Standards Institute (CLSI). Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically: Approved Standard Minth Edition. CLSI document M07-A9, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, Pennsylvania 19087, USA, 2012.
- 2. Clinical and Laboratory Standards Institute (CLSI). Performance Standards for Antimicrobial Disk Diffusion Susceptibility Tests; Approved Standard – Eleventh Edition. CLSI document Mic2-A11, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, Pennsylvania 19087, USA, 2018
- Clinical and Laboratory Standards Institute (CLSI). Performance Standards for Antimicrobial Susceptibility Testing: Twenty-third Informational Supplement, CLSI document M100-S24, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, Pennsylvania 19087, USA, 2014.

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### MEDICATION GUIDE OFLOXACIN TABLETS

Read the Medication Guide that comes with ofloxacin before you start taking it and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking to your healthcare provider about your medical condition or your treatment.

What is the most important information I should know about ofloxacin tablets? Ofloxacin belongs to a class of antibiotics called fluoroquinolones. Ofloxacin tablets can cause side effects that may be serious or even cause death. If you get any of the following serious side effects, get medical help right away. Talk with your healthcare provider about whether you should continue to take ofloxacin tablets.

### 1. Tendon rupture or swelling of the tendon (tendinitis).

- Tendon problems can happen in people of all ages who take ofloxacin tablets. Tendons
- Pain, swelling, tears, and inflammation of tendons including the back of the ankle (Achilles), shoulder, hand, or other tendon sites.
- The risk of getting tendon problems while you take ofloxacin tablets is higher if you:
- o are taking steroids (corticosteroids)
- Tendon problems can happen in people who do not have the above risk factors when they take olloxacin tablets. Other reasons that can increase your risk of tendon problems can include:
- o physical activity or exercise
- kidnev failure
- $\circ\,$  tendon problems in the past, such as in people with rheumatoid arthritis (RA).

• Call your healthcare provider right away at the first sign of tendon pain, swelling or inflammation. Stop taking offoxacin tablets until tendinitis or tendon rupture has been ruled out by your healthcare provider. Avoid exercise and using the affected area. The most common area of pain and swelling is the Achilles tendon at the back of your ankle. This can

- Talk to your healthcare provider about the risk of tendon rupture with continued use of
  ofloxacin tablets. You may need a different antibiotic that is not a fluoroquinolone to treat vour infection
- nightmares ndon rupture can happen while you are taking or after you have finished taking
- · Get medical help right away if you get any of the following signs or symptoms of a
- o bruising right after an injury in a tendon area
- o unable to move the affected area or bear weight

# 2. Worsening of myasthenia gravis (a disease that causes muscle weakness)

Fluoroquinolones like ofloxacin tablets may cause worsening of myasthenia gravis symptoms, including muscle weakness and breathing problems. Call your healthcare provider right away if you have any worsening muscle weakness or breathing problems.

See the section "What are the possible side effects of ofloxacin tablets?" for more information about side effects.

### What is ofloracin?

What is offoxacin? Offoxacin tablets are a fluoroquinolone antibiotic medicine used in adults to treat certain Unixacum abuses are individuantional entitled in incusional source against or their stream infections caused by certain germs called bacteria. It is not known if officiacin tablets are safe and work in people under 18 years of age. Children less than 18 years of age have a higher chance of getting bone, joint, or tendon (muscucloskeletal) problems such as pain or swelling while taking ofloxacin tablets.

Sometimes infections are caused by viruses rather than by bacteria. Examples include viral infections in the sinuses and lungs, such as the common cold or flu. Antibiotics, including ofloxacin tablets, do not kill viruses.

Call your healthcare provider if you think your condition is not getting better while you are taking offoxacin tablets

### Who should not take ofloxacin tablets?

Do not take ofloxacin tablets if you have ever had a severe allergic reaction to an antibiotic known as a fluoroquinolone, or if you are allergic to any of the ingredients in ofloxacin. Ask your healthcare provider if you are not sure. See the list of the ingredients in ofloxacin tablets at the end of this Medication Guide.

## What should I tell my healthcare provider before taking ofloxacin tablets? See "What is the most important information I should know about ofloxacin tablets?"

### Tell your healthcare provider about all your medical conditions, including if you:

- · have tendon problems
- . have a disease that causes muscle weakness (myasthenia gravis)
- · have central nervous system problems (such as epilepsy)
- · have nerve problems
- have or anyone in your family has an irregular heartbeat, especially a condition called
- have low blood potassium (hypokalemia)
- · have a history of seizures
- have kidney problems. You may need a lower dose of ofloxacin tablets if your kidneys do
- · have liver problems
- have rheumatoid arthritis (RA) or other history of joint problems
- are pregnant or planning to become pregnant. It is not known if ofloxacin tablets will harm
- are breastfeeding or planning to breastfeed. Offoxacin passes into breast milk. You and your healthcare provider should decide whether you will take ofloxacin tablets or breastfee

Tell your healthcare provider about all the medicines you take, including prescription and non-prescription medicines, vitamins, herbal and dietary supplements. Ofloxacin tablets and other medicines can affect each other causing side effects. Especially tell your healthcare provider if you take:

- an NSAID (Non-Steroidal Anti-Inflammatory Drug). Many common medicines for pain relief are NSAIDs. Taking an NSAID while you take offoxacin tablets or other fluoroquinolones may increase your risk of central nervous system effects and seizures. See "What are the possible side effects of offoxacin tablets?"
- theonhylline
- a blood thinner (warfarin, Coumadin®, Jantoven®)
- · an oral anti-diabetes medicine or insulin
- a medicine to control your heart rate or rhythm (antiarrhythmics). See "What are the oxomiting possible side effects of ofloxacin tablets?".
- · an anti-psychotic medicine
- · a tricyclic antidepressant
- a water pill (diuretic)
- · a steroid medicine. Corticost roids taken by mouth or by injection may increase the chance of tendon injury. See "What is the most important information I should know about ofloxacin tablets?".
- Certain medicines may keep ofloxacin tablets from working correctly. Take ofloxacin tablets either 2 hours before or 2 hours after taking these products:
- o an antacid, multivitamin, or other product that has magnesium, aluminum, iron, or zinc. o sucralfate (Carafate®)
- o didanosine (Videx® Videx® FC)

Ask your healthcare provider if you are not sure if any of your medicines are listed above. Know the medicines you take. Keep a list of your medicines and show it to your healthcare provider and pharmacist when you get a new medicine.

### How should I take ofloyacin tablets?

- ets exactly as prescribed by your healthcare provider. . Take ofloxacin tablets at about the same time each day.
- . Drink plenty of fluids while taking ofloxacin tablets.
- Ofloxacin tablets can be taken with or without food.
- . Do not skip any doses, or stop taking ofloxacin tablets even if you begin to feel better, until
- you have tendon effects (see "What is the most important information I should know about offoxacin tablets?").
- you have a serious allergic reaction (see "What are the possible side effects of ofloxacin tablets?"), or
- o your healthcare provider tells you to stop.
- This will help make sure that all of the bacteria are killed and lower the chance that the cin tablets. If this happens, ofloxacin tablets and other antibiotic medicines may not work in the future.
- . If you take too much, call your healthcare provider or get medical help immediately.

- What should I avoid while taking ofloxacin tablets?

   Ofloxacin tablets can make you feel dizzy and lightheaded. Do not drive, operate machinery, or do other activities that require mental alertness or coordination until you know how ofloxacin tablets affect you.
- Avoid sunlamps, tanning beds, and try to limit your time in the sun. Ofloxacin tablets can make your skin sensitive to the sun (photosensitivity) and the light from sunlamps and tanning beds. You could get severe sunbrum, blisters or swelling of your skin. If you get any of these symptoms while taking offoxacin tablets, call your healthcare provider right away. You should use a sunscreen and wear a hat and clothes that cover your skin if you have to be in explicit. have to be in sunlight

What are the possible side effects of ofloxacin tablets?
Ofloxacin tablets can cause side effects that may be serious or even cause death. See "What is the most important information I should know about ofloxacin tablets?" Other serious side effects of ofloxacin tablets include:

Central Nervous System Effects. Seizures have been reported in people who take fluoroquinolone antibiotics including offoxacin tablets. Tell your healthcare provider if you have a history of seizures. Ask your healthcare provider whether taking offoxacin tablets will change your risk of having a seizure.

Central Nervous System (CNS) side effects may happen as soon as after taking the first dose of ofloxacin tablets. Talk to your healthcare provider right away if you get any of these side effects, or other changes in more

- · feel lightheaded

- feel anxious or nervous
- confusion

- · feel more suspicious (paranoia)
- Serious allergic reactions

Allergic reactions can happen in people taking fluoroquinolones, including ofloxacin tablets even after only one dose. Stop taking ofloxacin tablets and get emergency medical help righ away if you get any of the following symptoms of a severe allergic reaction:

- · trouble breathing or swallowing
- . swelling of the lips, tongue, fac-
- . throat tightness, hoarseness
- · rapid heartbeat
- Yellowing of the skin or eyes. Stop taking ofloxacin tablets and tell your healthcare provider right away if you get yellowing of your skin or white part of your eyes, or if you have dark urine. These can be signs of a serious reaction to ofloxacin tablets (a liver prob

Skin rash may happen in people taking ofloxacin tablets, even after only one dose. Stop taking ofloxacin tablets 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 ofloxacin

Intestine infection (Pseudomembranous colitis) Pseudomembranous colitis can happen with most antibiotics, including ofloxacin tablets. 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. Pseudomembranous colitis can happen 2 or more months after you have finished your antibiotic.

### Changes in sensation and nerve damage (Peripheral Neuropathy)

Damage to the nerves in arms, hands, legs, or feet can happen in people taking fluoroquinolones, including ofloxacin tablets. Stop ofloxacin and talk with your healthcare provider right away if you get any of the following symptoms of peripheral neuropathy in your arms, hands, legs, or feet:

- pain
- tinalina
- · numbness
- The nerve damage may be permanent.

· Serious heart rhythm changes (QT prolongation and torsade de pointes)

Tell your healthcare provider right away if you have a change in your heart beat (a fast or irregular heartbeat), or if you faint. Offoxacin tablets may cause a rare heart problem known as prolongation of the QT interval. This condition can cause an abnormal heartbeat and can be very dangerous. The chances of this happening are higher in people.

- o who are elderly
- with low blood notassium (hypokalemia)
- o who take certain medicines to control heart rhythm (antiarrhythmics)

## Sensitivity to sunlight (photosensitivity): See "What should I avoid while taking ofloxacin tablets?" · Low blood sugar (hypoglycemia). People who take ofloxacin tablets and other

blood sugar (hypoglycemia). Follow your healthcare provider's instructions for how to check your blood sugar. If you have diabetes and you get low blood sugar while taking ofloxacin tablets, stop taking ofloxacin tablets right away and call your healthcare provider right away. Your antibiotic medicine may need to be changed.

The most common side effects of ofloxacin tablets include

- · Sleep problems
- dizziness
- nausea
- diarrhea itchina
- · vaginal inflammation (vaginitis)

· taste changes Ofloxacin tablets may cause false-positive urine screening results for opiates when testing is done with some commercially available kits. A positive result should be confirmed using a more specific test.

These are not all the possible side effects of ofloxacin tablets. Tell your healthcare provider about any side effect 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.

### How should I store ofloxacin tablets?

- Store ofloxacin tablets at 20° to 25°C (68° to 77°F).
- Keep the bottle that ofloxacin tablets come in closed tightly
- . Keep ofloxacin tablets and all medicines out of the reach of children

General Information about officeacin tablets
Medicines are sometimes prescribed for purposes other than those listed in a Medication
Guide. Do not use officeacin tablets for a condition for which it is not prescribed. Do not
give offoxacin tablets to other people, even if they have the same symptoms that you have.
It may harm them. This Medication Guide summarizes the most important information about ofloxacin tablets. If you

# would like more information about ofloxacin tablets, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about ofloxacin tablets that swritten for healthcare professionals. For more information call 1-888-838-2872, MEDICAL AFFAIRS.

What are the ingredients in ofloxacin tablets? Active ingredient; ofloxacin, USP

Inactive ingredients: corn starch, hydroxypropyl cellulose, hypromellose, lactose anhydrous, magnesium stearate, polyethylene glycol 400, polysorhate 80, sodium starch glycolate, and titanium dioxide. Additionally, the 200 mg tablets contain iron oxide yellow and the 400 mg tablets contain iron oxide yellow and iron oxide red.

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

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/s/

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04/10/2014

MALIK M IMAM
04/10/2014