Product Name: Ofloxacin Tablets USP 200 mg

Summary Product Characteristics

Name of the Product: Ofloxacin Tablets USP 200 mg

Route of Administration: Oral

1. Qualitative and Quantitative composition:

Sr.	Ingredients	Speci ficati	Quantity / Tablets	Label	Reason for
No.		ons	(mg)	Claim	inclusion
1.	Ofloxacin	USP	200.00	200.00	Active
2.	Maize Starch	BP	13.12		Diluent
3.	Microcrystalline Cellulose	BP	14.00		Disintegrant
4.	Lactose	BP	20.00		Diluent
5.	Sodium Starch Glycolate	BP	5.00		Disintegrant
6.	Colloidal Silicon Dioxide	BP	1.50		Glidant
PAS	TE PREPARATION				
7.	Maize Starch	BP	9.80		Binder
8.	Povidone K-30	BP	3.00		Binder
9.	Methyl Hydroxybenzoate	BP	0.06		Preservative
10.	Propyl Hydroxybenzoate	BP	0.02		Preservative
11.	Purified Water	BP	q.s.		Solvent
Lub	rication				
12.	Purified Talc	BP	4.00		Lubricant
13.	Magnesium Stearate	BP	3.00		Lubricant
14.	Colloidal Silicon Dioxide	BP	1.50		Glidant
15.	Sodium Starch Glycolate	BP	5.00		Disintegrant
Film	n Coating				
16.	Redymix colour white	IH	4.20		Coating Agent
17.	Isopropyl Alcohol	BP	q.s.		Solvent
18.	Purified Water	BP	q.s.		Solvent
BP = 1	British Pharmacopoeia,			ι – Ι	

ModuleI Administrative Information

Product Name: Ofloxacin Tablets USP 200 mg

USP = United State Pharmacopoeia,

IH = In House Specification

2. Pharmaceutical Form: Tablets

3. Clinical Particulars:

Therapeutic Indications

The following indications are restricted to adults.

Ofloxacin is suitable for treatment of the following bacterial infections if these are caused by pathogens sensitive to ofloxacin:

• Lower respiratory tract infections including pneumonia, bronchitits and acute exacerbations of chronic bronchitis caused by gram negative aerobic bacteria. (Ofloxacin tablets are not the drug of first choice in pneumonia caused by *Streptococcus 31onorrhea*, *Mycoplasma 31onorrhea* or *Chlamydia 31onorrhea*);

• Upper and lower urinary tract infections, including uncomplicated (cystitis) and complicated urinary tract infections.

• Uncomplicated urethral and cervical 31onorrhea, non-gonococcal urethritis and cervicitis. Consideration should be given to official guidance on the appropriate use of anti-bacterial agents.

Posology and method of administration:

Posology

The dose of ofloxacin is determined by the type and severity of the infection. The dosage range for adults is 200 mg to 800 mg daily.

Up to 200 mg may be given as a single dose, preferably in the morning. Generally, individual doses should be given at approximately equal intervals.

In individual cases it may be necessary to increase the dose to a maximum total dose of 800 mg daily, which should be given as 200 mg twice daily, at approximately equal intervals. This may be appropriate in infections due to pathogens known to have reduced or variable susceptibility to ofloxacin, in severe and/or complicated infections (e.g. of the respiratory or urinary tracts) or if the patient does not respond adequately.

The following doses are recommended:

Product Name: Ofloxacin Tablets USP 200 mg

Indications	Single and Daily Doses
Uncomplicated urethral/ cervical gonorrhoea	400 mg
Uncomplicated lower urinary tract infections	200 mg-400 mg daily
Complicated infections of the upper urinary tract	400 mg daily, increasing if necessary, to 400 mg twice a day
Lower respiratory tract infections	400 mg daily, increasing, if necessary, to 400 mg twice a day
Non-gonococcal urethritis and cervicitis	400 mg daily

A single dose of 400 mg of ofloxacin is sufficient for the treatment of uncomplicated

32onorrhea.

Special patient populations

Impaired renal function

Following a normal initial dose, dosage should be reduced in patients with impairment of renal function as determined by creatinine clearance or plasma creatinine level.

Creatinine Clearance	Plasma Creatinine	Maintenance Dose*
20 to 50 ml/min*	1.5 to 5 mg/dl	100 mg – 200 mg ofloxacin per day
<20ml/min**	>5 mg/dl	100 mg ofloxacin per day

* According to indication or dose interval

**The serum concentration of ofloxacin should be monitored in patients with severe renal impairment and dialysis patients.

Patients undergoing haemodialysis or peritoneal dialysis should be given 100 mg ofloxacin per day.

When creatinine clearance cannot be measured, it can be estimated with reference to the serum creatinine level using the following Cockcroft's formula for adults:

Product Name: Ofloxacin Tablets USP 200 mg

Men		ClCr (ml/min)=	weight(kg) x (140 -age in years)	
Mich.	eser (init tinit)-		72 x serum creatinine (mg/dl)	
	or		weight(kg) x (140 -age in years)	
		ClCr (ml/min)=	0.814 x serum creatinine(µmol/l)	

Women: ClCr(ml/min)= 0.85 x (above value)

Impaired liver function

The excretion of ofloxacin may be reduced in patients with severe hepatic dysfunction (e.g. cirrhosis of the liver with ascites). In such cases, it is recommended that the dose should not exceed 400 mg ofloxacin daily, because of possible reduction of excretion.

Paediatric population

Ofloxacin is contraindicated for use in children or growing adolescents.

Elderly

No adjustment of dosage is required in the elderly, other than that imposed by consideration of renal or hepatic function.

Treatment should not exceed 2 months duration.

A daily dose of up to 400 mg ofloxacin may be given as a single dose. In this case, it is preferable to administer ofloxacin in the morning.

Daily doses of more than 400 mg must be divided into two separate doses and be given at approximately equal intervals.

Method of administration

For oral use.

Ofloxacin tablets should be swallowed whole with sufficient liquid before or during meal times. They should not be taken within two hours of mineral antacids, sucralfate or metal ion preparations (aluminium, iron, magnesium or zinc), didanosine chewable or buffered tablets (for HIV), since reduction of absorption of ofloxacin can occur

Contraindications

The use of ofloxacin is contraindicated as follows:

• Hypersensitivity to the active substance, to any other fluoroquinolone antibacterials, or to any of the excipients used in formulation.

Product Name: Ofloxacin Tablets USP 200 mg

• In patients with a history of epilepsy or an existing central nervous system disorder with a lowered seizure threshold.

• In patients with a history of tendon disorders related to fluoroquinolone administration

• In children or growing adolescents, and in pregnant or breastfeeding women, since animal experiments do not entirely exclude the risk of damage to the growth-plate cartilage in the growing organism cannot be entirely excluded.

• In patients with latent or actual defects in glucose-6-phosphate dehydrogenase activity because they may be prone to haemolytic reactions when treated with quinolone antibacterial agents.

Special warnings and precautions for use

Ofloxacin tablets are not the drug of first choice in pneumonia caused by *Streptoccocus* 34onorrhea or Chlamydia 34onorrhea.

Methicillin-resistant S. aureus

Are very likely to possess co-resistance to fluoroquinolones, including ofloxacin. Therefore ofloxacin is not recommended for the treatment of known or suspected MRSA infections unless laboratory results have confirmed susceptibility of the organism to ofloxacin (and commonly recommended antibacterial agents for the treatment of MRSA-infections are considered inappropriate).

Resistance to fluoroquinolones of E. coli

The most common pathogen involved in urinary tract infections – varies across the European Union. Prescribers are advised to take into account the local prevalence of resistance in E. coli to fluoroquinolones.

Severe bullous reactions

Cases of severe bullous skin reactions such as Stevens-Johnson syndrome or toxic epidermal necrolysis have been reported with ofloxacin (see section 4.8). Patients should be advised to contact their doctor immediately prior to continuing treatment if skin and/or mucosal reactions occur.

Tendonitis

Tendonitis, rarely observed with quinolones, may occasionally lead to rupture involving Achilles tendon in particular. Tendinitis and tendon rupture, sometimes bilateral, may occur within 48 hours of starting treatment with ofloxacin and have been reported up to several months after

Product Name: Ofloxacin Tablets USP 200 mg

discontinuation of ofloxacin. The risk of tendinitis and tendon rupture is increased in patients aged over 60 years and in patients using corticosteroids. The daily dose should be adjusted in elderly patients based on creatinine clearance. Close monitoring of these patients is therefore necessary if they are prescribed ofloxacin. All patients should consult their physician if they experience symptoms of tendinitis. If tendinitis is suspected, treatment with ofloxacin must be halted immediately, and appropriate treatment (e.g. 35onorrhea35d35at) must be initiated for the affected tendon.

Hypersensitivity

Hypersensitivity and allergic reactions have been reported for fluoroquinolones after first administration. Anaphylactic and anaphylactoid reactions can progress to life-threatening shock, even after the first administration. In these cases of loxacin should be discontinued and suitable treatment (e.g. treatment for shock) should be initiated.

Diseases caused by Clostridium difficile

Diarrhoea, especially if severe, persistent and/or bloody, occurring during or after treatment with ofloxacin (including several weeks after treatment), may indicate a condition caused by *Clostridium difficile*, the most severe form of which is pseudomembranous colitis (CDAD). CDAD may range in severity from mild to life threatening, the most severe form of which is pseudomembranous colitis. It is therefore important to consider this diagnosis in patients who develop serious 35onorrhe during or after treatment with ofloxacin. If pseudomembraneous colitis is suspected, treatment should be discontinued immediately.

Appropriate specific antibiotic therapy must be started without delay (e.g. oral vancomycin, oral teicoplanin or metronidazole). Medicinal products that inhibit peristalsis are contraindicated in such cases.

Patients predisposed to seizures

Quinolones may lower the seizure threshold and may trigger seizures. Ofloxacin is contraindicated in patients with a history of epilepsy or with a known predisposition to seizures. Patients with a known predisposition to seizures may include those with pre-existing central nervous system lesions, concomitant treatment with fenbufen and similar non-steroidal antiinflammatory drugs (NSAIDs), or with drugs which lower the cerebral seizure threshold, such as theophylline.

In case of convulsive seizures, treatment with ofloxacin should be discontinued.

Product Name: Ofloxacin Tablets USP 200 mg

Patients with impaired renal function

Since of loxacin is eliminated primarily via the kidneys, the dose should be adjusted in patients with impaired renal function.

Patients with history of psychotic disorder

Psychotic reactions have been reported in patients receiving fluoroquinolones including ofloxacin. In some cases these have progressed to suicidal thoughts or self-endangering behavior including suicide attempt, sometimes after a single dose of ofloxacin. In the event that a patient develops these reactions, ofloxacin should be discontinued and appropriate measures instituted.

Ofloxacin should be used with caution in patients with a history of psychotic disorder or in patients with psychiatric disease.

Patients with impaired liver function

Ofloxacin should be used with caution in patients with impaired liver function, as liver damage may occur. Cases of fulminant hepatitis potentially leading to liver failure (including fatal cases) have been reported with fluoroquinolones. Patients should be advised to stop treatment and contact their doctor if signs and symptoms of hepatic disease develop such as anorexia, jaundice, dark urine, pruritus or tender abdomen.

Patients treated with vitamin K antagonists

Due to possible increase in coagulation tests (PT/INR) and/or bleeding in patients treated with fluoroquinolones, including ofloxacin, in combination with a vitamin K antagonist (e.g. warfarin), coagulation tests should be monitored when these drugs are given concomitantly.

Myasthenia gravis

Fluoroquinolones, including ofloxacin, have neuromuscular blocking activity and may exacerbate muscle weakness in patients with myasthenia gravis. Postmarketing serious adverse reactions, including deaths and the requirement for respiratory support, have been associated with fluoroquinolone use in patients with myasthenia gravis. Ofloxacin is not recommended in patients with a known history of myasthenia gravis.

Superinfection

As with other antibiotics, the use of ofloxacin, especially if prolonged, may result in overgrowth of non-susceptible organisms, especially Enterococci, resistant strains of some organisms or Candida. Repeated evaluation of the patient's condition is essential and periodic *in*

Product Name: Ofloxacin Tablets USP 200 mg

vitro susceptibility tests may be useful. If secondary infection occurs during therapy, appropriate measures should be taken.

Prevention of 37onorrhea37d37atory37

Photosensitisation has been reported with ofloxacin. It is recommended that patients should not expose themselves unnecessarily to strong sunlight or to artificial UV rays (e.g. sunray lamp, solarium), during treatment and for 48 hours following treatment discontinuation in order to prevent 37onorrhea37d37atory37.

QT interval prolongation

Very rare cases of QT interval prolongation have been reported in patients taking fluoroquinolones.

Caution should be taken when using fluoroquinolones, including ofloxacin, in patients with known risk factors for prolongation of the QT interval such as, for example:

- Elderly patients and women may be more sensitive to QTc-prolonging medications. Therefore, caution should be taken when using fluoroquinolones, including ofloxacin, in these populations.

- Uncorrected electrolyte imbalance (e.g. hypokalemia, hypomagnesemia)

- Congenital long QT syndrome

- Concomitant use of drugs that are known to prolong the QT interval (e.g. Class IA and III antiarrhythmics, tricyclic antidepressants, macrolides, antipsychotics)

- Cardiac disease (e.g. heart failure, myocardial infarction, bradycardia)

Dysglycaemia

As with all quinolones, disturbances in blood glucose, including both hypoglycaemia and hyperglycaemia have been reported, usually in diabetic patients receiving concomitant treatment with an oral hypoglycaemic agent (e.g., glibenclamide) or with insulin. Cases of hypoglycaemic coma have been reported. In these diabetic patients, careful monitoring of blood glucose is recommended.

Peripheral neuropathy

Sensory or sensorimotor peripheral neuropathy has been reported in patients receiving fluoroquinolones, including ofloxacin, which can be rapid in its onset. Ofloxacin should be discontinued if the patient experiences symptoms of neuropathy. This would 37onorrhe the possible risk of developing an irreversible condition.

Patients with glucose-6-phosphate-dehydrogenase deficiency

Product Name: Ofloxacin Tablets USP 200 mg

Patients with latent or diagnosed glucose-6-phosphate-dehydrogenase deficiency may be predisposed to haemolytic reactions if they are treated with quinolones. Therefore if ofloxacin has to be used in these patients, potential occurrence of haemolysis should be monitored.

Interference with laboratory tests

In patients treated with ofloxacin, determination of opiates or porphyrin levels in urine may give false-positive results. It may be necessary to confirm positive opiate or porphyrin screens by more specific methods.

Vision disorders

If vision becomes impaired or any effects on the eyes are experienced, an eye specialist should be consulted immediately.

Excipient with known effect

Ofloxacin contains lactose anhydrous. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency, or glucose-galactose malabsorption should not take this medicine.

For treatment of severe and/or life-threatening infections parenteral therapy is indicated.

Interaction with other medicinal products and other forms of interaction

Antacids, Sucralfate, Metal Cations

Co-administered magnesium/aluminum antacids, sucralfate, zinc or iron preparations and didanosine chewable/buffered tablets can reduce absorption of ofloxacin tablets. Therefore, ofloxacin should be taken 2 hours before such preparations.

Theophylline, fenbufen or similar non-steroidal anti-inflammatory drugs

No pharmacokinetic interactions of ofloxacin were found with theophylline in a clinical study. However, a pronounced lowering of the cerebral seizure threshold may occur when quinolones are given concurrently with theophylline, nonsteroidal 38onorrhea38d38atory drugs, or other agents, which lower the seizure threshold.

Probenecid, cimetidine, furosemide, and methotrexate

Probenecid decreased the total clearance of ofloxacin by 24%, and increased AUC by 16%. The proposed mechanism is a competition or inhibition for active transport at the renal tubular excretion. Caution should be exercised when ofloxacin is coadministered with drugs that affect the tubular renal secretion such as probenecid, cimetidine, furosemide and methotrexate.

Product Name: Ofloxacin Tablets USP 200 mg

Drugs known to prolong QT interval

Ofloxacin, like other fluoroquinolones, should be used with caution in patients receiving drugs known to prolong the QT interval (e.g. Class IA and III antiarrhythmics, tricyclic antidepressants, macrolides, and antipsychotics) (see section 4.4 QT interval prolongation).

Vitamin K antagonists

Increased coagulation tests (PT/INR) and/or bleeding, which may be severe, have been reported in patients treated with ofloxacin in combination with a vitamin K antagonist (e.g. warfarin). Coagulation tests should, therefore, be monitored in patients treated with vitamin K antagonists because of a possible increase in the effect of coumarin derivatives.

Glibenclamide

Ofloxacin may cause a slight increase in plasma glibenclamide levels when administered concurrently; it is therefore recommended that patients treated concomitantly with ofloxacin and glibenclamide be monitored particularly closely. Since hypoglycaemia is then more likely to occur, close monitoring of blood sugar levels is recommended in such cases.

Fertility, pregnancy and lactation

Pregnancy

Based on a limited amount of human data, the use of fluoroquinolones in the first trimester of pregnancy has not been associated with an increased risk of major malformations or other adverse effects on pregnancy outcome. Animal studies have shown damage to the joint cartilage in immature animals but no teratogenic effects. Therefore of loxacin must not be used during pregnancy.

Breast-feeding

Ofloxacin is excreted into human breast milk in small amounts. Because of the potential for arthropathy and other serious toxicity in the nursing infant, breast-feeding should be discontinued during treatment with ofloxacin

Product Name: Ofloxacin Tablets USP 200 mg

Effects on the ability to drive and use machines

Since there have been occasional reports of drowsiness/somnolence, impairment of skills, dizziness/vertigo and visual disturbances, which may impair the patient's ability to concentrate and react, and therefore may constitute a risk in situations where these abilities are of special importance (e.g. driving a car or operating machinery), patients should know how they react to ofloxacin before they drive or operate machinery. These effects may be enhanced by alcohol.

Undesirable effects:

The information given below is based on data from clinical studies and on extensive post marketing experience.

System organ class	Uncommon	Rare	Very rare	Not known
	(≥1/1,000 to	(≥1/10,000 to	(< 1/10,000)	(cannot be
	<1/100)	<1/1,000)		estimated from
				available data)*
Infections and	Fungal infection,			
infestations	Pathogen resistance			
Blood and			Anaemia,	Agranulocytosis,
lymphatic system			Haemolyticanaemia,	Bone marrow
disorders			Leucopenia,	failure,
			Eosinophilia,	Pancytopenia
			Thrombocytopenia	
Immune system		Anaphylactic	Anaphylactic	
disorders		reaction [*] ,	shock [*] ,	
		Anaphylactoid	Anaphylactoid	
		reaction [*] ,	shock*	
		Angioedema*		
Metabolism and		Anorexia		Hypoglycaemia
Nutrition disorders				in diabetics
				treated with
				hypoglycaemic

Product Name: Ofloxacin Tablets USP 200 mg

				agents
				Hyperglycaemia
				Hypoglycaemic
				coma
Psychiatric disorders	Agitation,	Psychotic disorder		Psychotic
	Sleep disorder,	(for e.g.		disorder and
	Insomnia	hallucination),		depression with
		Anxiety,		self-
		Confusional state,		endangering
		Nightmares,		41onorrhe
		Depression		including
				suicidal ideation
				or suicide
				attempt,
				Nervousness
Nervous system	Dizziness,	Somnolence,	Peripheral sensory	Tremor,
disorders	Headache	Paraesthesia,	neuropathy*,	Dykinesia,
		Dysgeusia,	Peripheral sensory	Ageusia,
		Parosmia	motor neuropathy*,	Syncope
			Convulsion [*] ,	
			Extra-pyramidal	
			symptoms or other	
			disorders of	
			muscular	
			coordination	
Eye disorders	Eye irritation	Visual disturbance		Uveitis
Ear and labyrinth	Vertigo		Tinnitus,	Hearing
disorders			Hearing loss	impaired
Cardiac disorders		Tachycardia		Ventricular
				arrhythmias and
				torsades de

ModuleI Administrative Information

Product Name: Ofloxacin Tablets USP 200 mg

				pointes (reported
				predominantly in
				patients with risk
				factors for QT
				prolongation),
				ECG QT
				prolonged
Vascular disorders		Hypotension		
Respiratory, thoracic	Cough,	Dyspnoea,		Allergic
and mediastinal	Nasopharyngitis	Bronchospasm		pneumonitis,
disorders				Severe dyspnoea
Gastrointestinal	Abdominal pain,	Enterocolitis,	Pseudomembranous	Dyspepsia,
disorders	Diarrhoea,	sometimes	colitis [*]	Flatulence,
	Nausea,	haemorrhagic		Constipation,
	Vomiting			Pancreatitis
Hepatobiliary		Hepatic enzymes	Jaundice cholestatic	Hepatitis, which
disorders		increased (ALAT,		may be severe*
		ASAT, LDH,		Severe liver
		gamma-GT and/or		injury, including
		alkaline		cases with acute
		phosphatase),		liver failure,
		Blood bilirubin		sometimes fatal,
		increased		have been
				reported with
				ofloxacin,
				primarily in
				patients with
				underlying liver
				disorders
Skin and	Pruritus,	Urticaria,	Erythema	Stevens-Johnson

ModuleI Administrative Information

Product Name: Ofloxacin Tablets USP 200 mg

			1.:0	
	Rash	Hot flushes,	multiforme,	syndrome,
disorders		Hyperhidrosis	Toxic epidermal	Acute
		Pustular rash	necrolysis,	43onorrhea43d
			Photo-sensitivity	exanthemous
			reaction [*] ,	pustulosis,
			Drug eruption,	Drug rash,
			Vascular purpura,	Stomatitis
			Vasculitis, which	Exfoliative
			can lead in	dermatitis
			exceptional cases to	
			skin necrosis	
Musculoskeletal and		Tendonitis	Arthralgia,	Rhabdomyolysis
connective tissue			Myalgia,	and/or
disorders			Tendon rupture (e.g.	Myopathy,
			Achilles tendon)	Muscular
			which may occur	weakness,
			within 48 hours of	Muscle tear,
			treatment start and	Muscle rupture,
			may be bilateral	Ligament
				rupture,
				Arthritis
Renal and urinary		Serum creatinine	Acute renal failure	Acute interstitial
disorders		increased		nephritis
Congenital, familial				Attacks of
and genetic				porphyria in
disorders				patients with
				porphyria
General disorders				Asthenia,
and administration				Pyrexia,
site conditions				Pain (including

Product Name: Ofloxacin Tablets USP 200 mg

		pain in back,
		chest and
		extremities)

4.9 Overdose:

Symptoms

The most important signs to be expected following acute overdose are CNS symptoms such as confusion, dizziness, impairment of consciousness and convulsive seizures increases in QT interval as well as gastrointestinal reactions such as nausea and mucosal erosions.

CNS effects including confusional state, convulsion, hallucination, and tremor have been observed in post marketing experience.

Management

In the case of overdose steps to remove any unabsorbed ofloxacin e.g. gastric lavage, administration of adsorbants and sodium sulphate, if possible during the first 30 minutes, are recommended; antacids are recommended for protection of the gastric mucosa.

In the event of overdose, symptomatic treatment should be implemented. ECG monitoring should be undertaken, because of the possibility of QT interval prolongation. Antacids may be used for protection of gastric mucosa. A fraction of ofloxacin may be removed from the body with haemodialysis. Peritoneal dialysis and CAPD are not effective in removing ofloxacin from the body. No specific antidote exists.

Elimination of ofloxacin may be increased by forced 44onorrhe.

5. Pharmacological Particulars:

Pharmacodynamic properties

Pharmacotherapeutic group: Quinolone Antibacterials, Fluoroquinolones

ATC code: J01 MA 01

Mechanism of action

Ofloxacin inhibits bacterial DNA replication by inhibiting bacterial topoisomerases, particularly DNA gyrase and topoisomerase IV. It is active after oral administration.

Therapeutic doses of ofloxacin are devoid of pharmacological effects on the voluntary or autonomic nervous system.

Product Name: Ofloxacin Tablets USP 200 mg

The NCCLS MIC breakpoint recommendations are as follows:

 $S \leq 2 \text{ mg/l} \text{ and } R \geq 8 \text{ mg/l}$

Intermediate susceptibility at 4 mg/l

Haemophilus 45onorrhea and *Neissaria 45onorrhea* are exceptions with breakpoints at $S \le 0.25$

mg/l and $R \ge 1$ mg/l

The BSAC general recommendations are $S \leq 2 \mbox{ mg/l}$ and $R \geq 4 \mbox{ mg/l}$

According to DIN 58 940, the following limits apply for ofloxacin:

 $S \le mg/L, I = 3 mg/L, R \ge 4 mg/L.$

The prevalence of resistance may vary geographically and with time for selected species and local information on resistance is desirable, particularly when treating severe infections. This information gives only an approximate guidance <u>on probabilities</u>whether micro-organisms will be susceptible to ofloxacin or not.

Only those pathogens relevant to the indications are listed.

	European range of acquired bacterial resistance
	to ofloxacin
Normally susceptible	
Aerobic Gram-positive micro organisms	
S. aureus – methicillin-sensitive	0.3-12.6%
S. pyogenes	2-5%
Aerobic Gram-negative micro organisms	
Acinetobacterspp	0.3-7.3%
Citrobacter spp.	3-15%
Enterobacter spp.	2-13%
E. coli	1-8%
H. influenzae	1%
Klebsiella spp.	1-10%
Moraxella spp.	0-0.2%
Morganellamorganii	0-6.9%

Product Name: Ofloxacin Tablets USP 200 mg

N. gonorrhoeae	25%
Proteus spp.	1-15%
Serratiamarcescens	2-2.4%
Others	
Chlamydia spp	
L. pneumophila	
Intermediately susceptible	
Aerobic Gram-positive micro organisms	
S. pneumoniae	70%
Providentia	17.1%
Aerobic Gram-negative micro organisms	
E. faecalis	50%
P. aeruginosa	20-30%
Serratia spp.	20-40%
Stenotrophomonasmaltophilia	5.1-11%
Others	
Mycoplasma spp.	0-5.3%
Ureaplasma spp.	0-2.1%
Resistant	
Anaerobic bacteria	
S. aureus – methicillin-resistant	69.2-85.7%
T. pallidum	
Desistance	

Resistance

The main mechanism of bacterial resistance to ofloxacin involves one or more mutations in the target enzymes, which generally confer resistance to other active substances in the class. Efflux pump and impermeability mechanisms of resistance have also been described and may confer variable resistance to active substances in other classes.

Product Name: Ofloxacin Tablets USP 200 mg

Pharmacokinetic properties

Absorption

The administration of oral doses to fasting volunteers was followed by a rapid and almost complete absorption of ofloxacin. The peak plasma concentration after a single oral dose of 200mg averaged 2.6 μ g/ml and was reached within one hour. The plasma elimination half-life was 5.7 to 7.0 hours and was not dose related.

Distribution

The apparent distribution volume was 120 litres. The plasma concentration did not materially rise with repeat doses (accumulation factor for twice daily dosage: 1.5). The plasma protein binding was approx. 25%.

Biotransformation

The biotransformation of ofloxacin was below 5%. The two main metabolites found in the urine were N-desmethyl-ofloxacin and ofloxacin-N-oxide.

Elimination

Excretion is primarily renal. Between 80 and 90% of the dose were recovered from the urine as unchanged substance.

Ofloxacin was present in the bile in glucuronidised form. The pharmacokinetics of ofloxacin after intravenous infusion are very similar to those after oral doses. The plasma half-life is prolonged in persons with renal insufficiency; total and renal clearance decrease in accordance with the creatinine clearance. In renal insufficiency the dose should be reduced.

No clinically relevant interactions were seen with food and no interaction was found between ofloxacin and theophylline.

Preclinical safety data

Preclinical effects in conventional studies of safety pharmacology, acute toxicity, repeated dose toxicity, reproductive studies were observed only at exposures considered sufficiently in excess of the maximum human exposure indicating little relevance to clinical use. Joint toxicity was observed at exposure in the human therapeutic range in juvenile rats and dogs. Ofloxacin exhibits a neurotoxic potential and causes reversible testicular alterations at high doses.

Mutagenicity studies showed no evidence for mutagenicity of ofloxacin. However, like some other quinolones Ofloxacin is phototoxic in animals at exposure in the human therapeutic range.

Product Name: Ofloxacin Tablets USP 200 mg

The phototoxic, photomutagenic and photocarcinogenic potential of ofloxacin is comparable with that of other gyrase inhibitors.

Preclinical data from conventional genotoxicity studies reveal no special hazard to humans, carcinogen potential has not be investigated.

Reproduction toxicity

Ofloxacin has no effect on fertility, peri- or postnatal development, and therapeutic doses did not lead to any teratogenic or other embryotoxic effects in animals. Ofloxacin crosses the placenta and levels reached in the amniotic fluid are about 30% of the maximal concentrations measured in maternal serum.

6. Pharmaceutical Particulars:

List of Excipients:

Maize Starch	BP
Lactose	BP
Microcrystalline Cellulose	BP
Colloidal Silicon Dioxide	BP
Sodium Starch Glycolate	BP
Povidone K-30	BP
Methyl Hydroxybenzoate	BP
Propyl Hydroxybenzoate	BP
Purified Water	BP
Magnesium Stearate	BP
Purified Talc	BP
Isopropyl Alcohol	BP
Readymix colour white	IH

Incompatibilities: Nil

Shelf Life: 36 months.

Special Precautions for storage:

Store below 30°C in a dry place. Protect from light.

Product Name: Ofloxacin Tablets USP 200 mg

Nature and contents of container:

Tablets are packed in Alu-Alu blister.

Special precautions for disposal and other handling:

No special requirements.

7. Marketing Authorization Holder:

Marketed By: TIM GREAT PHARMA VENTURES LTD. No. 39, Niger Street, Off M/M Way, Opposite Glo office, Kano, Kano, Nigeria.

Manufactured By: FLOURISH PHARMA 24-E, GOA-IDC, Daman Industrial Estate, Somnath, Dabhel (U.T.) 396215, India.

8. Marketing Authorization Number:---

9. Date of first Authorization /renewal of the authorization: ---

10. Date of revision of text: