

**MOXIFLOXACIN-TEVA**

**F.C. TABLET 400 MG**

**1. NAME OF THE MEDICINAL PRODUCT**  
Moxifloxacin-Teva F.C. Tablet 400 mg

**2. QUALITATIVE AND QUANTITATIVE COMPOSITION**  
1 film-coated tablet contains 400 mg moxifloxacin (as hydrochloride).

**3. PHARMACEUTICAL FORM**  
Film-coated tablet  
Description: Pink, oblong biconvex film coated tablets

**4. CLINICAL PARTICULARS**

**4.1 Indications**  
Moxifloxacin-Teva F.C. Tablet 400 mg are indicated for the treatment of the following bacterial infections caused by susceptible strains:

- Respiratory tract infections:

*Acute Bacterial Sinusitis* caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, or *Moraxella catarrhalis*.  
*Acute Bacterial Exacerbation of Chronic Bronchitis* caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Klebsiella pneumoniae*, *Staphylococcus aureus*, or *Moraxella catarrhalis*.  
*Community Acquired Pneumonia* (of mild to moderate severity) caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Mycoplasma pneumoniae*, *Chlamydia pneumoniae*, or *Moraxella catarrhalis*.

- Uncomplicated skin and skin structure infections caused by *Staphylococcus aureus* or *Streptococcus pyogenes*

- Complicated skin and skin structure infections caused by methicillin-susceptible *Staphylococcus aureus*, *Escherichia coli*, *Klebsiella pneumoniae* or *Enterobacter cloacae*.

- Mild to moderate pelvic inflammatory disease (i.e. infections of female upper genital tract, including salpingitis and endometritis), without an associated tubo-ovarian or pelvic abscess.

Moxifloxacin-Teva F.C. Tablet 400 mg are not recommended for use in monotherapy of mild to moderate pelvic inflammatory disease but should be given in combination with another appropriate antibacterial agent (eg. a cephalosporin) due to increasing moxifloxacin resistance of *Neisseria gonorrhoeae*. Moxifloxacin-Teva F.C. Tablet 400 mg are indicated for the treatment of the above infections if they are caused by bacteria susceptible to moxifloxacin.

For a full list of susceptible strains, please refer to "Pharmacodynamic Properties". Consideration should be given to official guidance on the appropriate use of antibacterial agents.

**4.2 Dosage and method of administration**

**4.2.1 Method of administration**

Film-coated tablet:  
The film-coated tablet should be swallowed whole with sufficient liquid and may be taken independent of meals.

**4.2.2 Dosage Regimen**

**Dose (adults):**

The recommended dose for Moxifloxacin is 400 mg once daily (1 film coated tablet) for the above mentioned indications and should not be exceeded.

For complicated skin and skin structure infections, therapy should usually be initiated with intravenous formulation. When switching from intravenous to oral dosage administration, no dosage adjustment is necessary. Patients whose therapy is started with Moxifloxacin I.V. may be switched to Moxifloxacin Tablets when clinically indicated at the discretion of the physician.

**Duration of treatment:**

The duration of treatment should be determined by the severity of the indication or clinical response. The following general recommendations are made:

- Acute exacerbation of chronic bronchitis, 5 days
- Acute sinusitis, 7 days
- Uncomplicated skin and skin structure infections, 7 days
- Community acquired pneumonia (mild to moderate in severity) 10 days
- Community acquired pneumonia: total recommended duration for sequential administration (intravenous followed by oral therapy) is 7-14 days
- Complicated skin and skin structure infections: total treatment duration for sequential therapy (intravenous followed by oral therapy) is 7-21 days
- Mild to moderate pelvic inflammatory disease, 14 days

The recommended duration of treatment for the indication being treated should not be exceeded.

Moxifloxacin 400 mg film-coated tablets and 400 mg solution for infusion have been studied in clinical trials for up to 21 days (in complicated skin and skin structure infections).

**4.2.3 Additional information on special populations:**

**4.2.3.1 Children and adolescents**

Efficacy and safety of Moxifloxacin in children and adolescents have not been established (see "Contraindications").

**4.2.3.2 Geriatric patients**

No adjustment of dosage is required in elderly.

**4.2.3.3 Ethnic differences**

No adjustment of dosage is required in ethnic groups.

**4.2.3.4 Patients with hepatic impairment**

No dosage adjustment is required in patients with mild or moderate impaired liver function. The use of moxifloxacin is not recommended in patients with severe hepatic impairment (Child Pugh C) (see "Special warnings and precautions for use" in Child Pugh C patients).

**4.2.3.5 Patients with renal impairment**

No dose adjustment is required in patients with any degree of renal impairment (including creatinine clearance < 30 mL/min/1.73m<sup>2</sup>) and in patients on chronic dialysis i.e. hemodialysis and continuous ambulatory peritoneal dialysis.

**4.3 Contraindications**

Known hypersensitivity to moxifloxacin or other quinolones or any of the excipients.

Pregnancy and lactation.

Patients below 18 years of age.

Patients with a history of tendon disease/disorder related to quinolone treatment.

Both in preclinical investigations and in humans, changes in cardiac electrophysiology have been observed following exposure to moxifloxacin, in the form of QT prolongation. For reasons of drug safety, Moxifloxacin is therefore contraindicated in patients with:

- Congenital or documented acquired QT prolongation
- Electrolyte disturbances, particularly in uncorrected hypokalaemia
- Clinically relevant bradycardia
- Clinically relevant heart failure with reduced left-ventricular ejection fraction
- Previous history of symptomatic arrhythmias

Moxifloxacin should not be used concurrently with other drugs that prolong the QT interval (see also "Interactions with other medicaments and other forms of interaction").

Moxifloxacin is contraindicated in patients with impaired liver function (Child Pugh C) and in patients with transaminases increase > 5 fold ULN.

**4.4 Special warnings and precautions for use**

In some instances, the hypersensitivity and allergic reactions already occurred after the first administration and the doctor should be informed immediately.

Anaphylactic reactions in very rare instances can progress to a life threatening shock, in some instances after the first administration. In these cases, the treatment with Moxifloxacin has to be discontinued, medical treatment (e.g. treatment for shock) is required.

Moxifloxacin, has been shown to prolong the QT interval of the electrocardiogram in some patients. As women tend to have a longer baseline QTc interval compared with men, they may be more sensitive to QT-prolonging medications. Elderly patients may also be more susceptible to drug-associated effects on the QT interval.

As the magnitude of QT prolongation may increase with increasing concentrations of the drug, the recommended dose and infusion rate (400mg within 60 minutes) should not be exceeded. However, in patients suffering from pneumonia, no correlation between plasma concentrations of moxifloxacin and QTc prolongation was observed. QT prolongation may lead to an increased risk for ventricular arrhythmias including torsade de pointes. No cardiovascular morbidity or mortality attributable to QTc prolongation occurred with Moxifloxacin treatment in clinical studies with more than 9000 patients, however, certain predisposing conditions may increase the risk for ventricular arrhythmias.

Therefore, treatment with Moxifloxacin should be avoided due to the lack of clinical experience with the drug in these patient populations.

- in patients with known prolongation of the QT interval
- In patients with uncorrected hypokalaemia
- In patients receiving class IA (e.g. quinidine, procainamide) or class III (e.g. amiodarone, sotalol) antiarrhythmic agents

Moxifloxacin should be used with caution as an additive effect of moxifloxacin on the QT interval cannot be excluded for the following conditions:

- In patients treated concomitantly with drugs that prolong the QT interval such as cisapride, erythromycin, antipsychotics, and tricyclic antidepressants
- In patients with ongoing proarrhythmic conditions, such as clinically significant bradycardia, acute myocardial ischemia.
- In patients with liver cirrhosis as pre-existing QT prolongation in these patients cannot be excluded.
- In women and elderly patients who, both, may be more susceptible to QTc-prolonging drugs.

Treatment with moxifloxacin should be stopped if signs or symptoms that may be associated with cardiac arrhythmia occur during treatment, with or without ECG findings.

Moxifloxacin should be used with caution in patients with any condition pre-disposing to cardiac arrhythmias (e.g. acute myocardial ischemia) because they may have an increased risk of developing ventricular arrhythmias (incl. torsade de pointes) and cardiac arrest. Moxifloxacin should be used with caution in patients who are taking medication that can reduce potassium levels.

Moxifloxacin should be used with caution in patients who are taking medications associated with clinically significant bradycardia.

Cases of fulminant hepatitis potentially leading to liver failure (including fatal cases) have been reported with Moxifloxacin (see "Undesirable Effects"). Patients should be advised to contact their doctor immediately prior to continuing treatment if signs and symptoms of fulminant hepatic disease develop such as rapidly developing jaundice associated with jaundice, dark urine, bleeding tendency or hepatic encephalopathy.

Cases of bullous skin reactions like Stevens-Johnson syndrome or toxic epidermal necrolysis have been reported with Moxifloxacin (see "Undesirable Effects"). Patients should be advised to contact their doctor immediately prior to continuing treatment if skin and/or mucosal reactions occur.

Seizures may occur with quinolone therapy. Moxifloxacin should be used with caution in patients with known or suspected CNS disorders which may predispose to seizures or lower the seizure threshold.

Due to limited clinical data the use of moxifloxacin is not recommended in patients with severe hepatic impairment (Child Pugh C).

Because of the widespread and rising prevalence of fluoroquinolone-resistant *Neisseria gonorrhoeae* infections, monotherapy with moxifloxacin should be avoided in patients with pelvic inflammatory disease, the addition of an appropriate antibiotic which is regularly active against *N. gonorrhoeae* (e.g. cephalosporin) to empirical moxifloxacin therapy, should be considered.

Tendon inflammation and rupture may occur with quinolone therapy including moxifloxacin, particularly in elderly patients and in those treated concurrently with corticosteroids; cases occurring up to several months after completion of therapy have been reported. At the first sign of pain or inflammation, patients should discontinue treatment and rest the affected limb(s).

Consult your doctor immediately in order to initiate appropriate treatment (e.g. immobilisation) for the affected tendon. Tendon inflammation and rupture may occur even up to several months after discontinuing quinolone therapy including moxifloxacin. Antibiotic-associated diarrhoea (AAD) and antibiotic-associated colitis (AAC), including pseudomembranous colitis and *Clostridium difficile*-associated diarrhea, has been reported in association with the use of broad spectrum antibiotics including moxifloxacin and may range in severity from mild diarrhea to fatal colitis. Therefore it is important to consider this diagnosis in patients who develop serious diarrhoea during or after the use of moxifloxacin. If AAD or AAC is suspected or confirmed, ongoing treatment with antibacterial agents, including moxifloxacin, should be discontinued and adequate therapeutic measures should be initiated immediately. Furthermore, appropriate infection control measures should be undertaken to reduce the risk of transmission.

Drugs inhibiting peristalsis are contraindicated in patients who develop serious diarrhoea.

Exacerbation of *Myasthenia Gravis*: Fluoroquinolones, including moxifloxacin, have neuromuscular blocking activity and may exacerbate muscle weakness in persons with *myasthenia gravis*. Post-marketing serious adverse events, including deaths and requirement for ventilatory support, have been associated with fluoroquinolone use in persons with *myasthenia gravis*. Avoid moxifloxacin in patients with a known history of *myasthenia gravis*.

Quinolones have been shown to cause photosensitivity in patients. However, in specially designed pre-clinical and clinical studies photosensitivity has not been observed with Moxifloxacin. In addition, since first marketed there has been no clinical evidence that Moxifloxacin causes photosensitivity reactions. Nevertheless patients should be advised to avoid extensive exposure to either UV irradiation or sunlight. If vision becomes impaired or any effects on the eyes are experienced, an eye specialist should be consulted immediately.

Patients with a family history of or actual glucose-6-phosphate dehydrogenase deficiency are prone to haemolytic reactions when treated with quinolones. Therefore, moxifloxacin should be used with caution in these patients.

Elderly patients with renal disorders should use moxifloxacin with caution if they are unable to maintain adequate fluid intake, because dehydration may increase the risk of renal failure. For patients with complicated pelvic inflammatory disease (e.g. associated with a tubo-ovarian or pelvic abscess), for whom an intravenous treatment is considered necessary, treatment with Moxifloxacin-Teva F.C. Tablet 400 mg is not recommended.

Moxifloxacin is not recommended for the treatment of MRSA infections. In case of a suspected or confirmed infection due to MRSA, treatment with an appropriate antibacterial agent should be started (see "Pharmacodynamic properties").

Moxifloxacin *in vitro* activity may interfere with the *Mycobacterium* spp. culture test by suppression of mycobacterial growth, causing false negative results in specimens from patients currently taking Moxifloxacin.

Peripheral Neuropathy: Cases of sensory or sensorimotor axonal polyneuropathy affecting small and/or large axons resulting in paresthesias, hypoesthesias, dyesthesias and weakness have been reported in patients receiving fluoroquinolones, including Moxifloxacin. Symptoms may occur soon after initiation of Moxifloxacin and may be irreversible. Moxifloxacin should be discontinued immediately if the patient experiences symptoms of peripheral neuropathy including pain, burning, tingling, numbness, and/or weakness or other alterations of sensation including light touch, pain, temperature, position sense, and vibratory sensation (see "Undesirable effects").

Psychiatric reactions may occur even after the first administration of fluoroquinolones, including moxifloxacin.

In very rare cases depression or psychotic reactions have progressed to suicidal thoughts and self-injurious behavior such as suicide attempts (see "Undesirable effects"). In the event that the patient develops these reactions, Moxifloxacin should be discontinued and appropriate measures instituted. Caution is recommended if Moxifloxacin is to be used in psychotic patients or in patients with a history of psychiatric disease.

Because of the widespread and rising prevalence of fluoroquinolone-resistant *Neisseria gonorrhoeae* infections, monotherapy with moxifloxacin should be avoided in patients with pelvic inflammatory disease, unless fluoroquinolone-resistant *N. gonorrhoeae* can be excluded. If fluoroquinolone-resistant *N. gonorrhoeae* cannot be excluded, the addition of an appropriate antibiotic which is regularly active against *N. gonorrhoeae* (e.g. a cephalosporin) to empirical moxifloxacin therapy, should be considered.

As with all fluoroquinolones, disturbances in blood glucose, including both hypoglycemia and hyperglycemia have been reported with moxifloxacin. In moxifloxacin-treated patients, dysglycemia occurred predominantly in elderly diabetic patients receiving concomitant treatment with an oral hypoglycemic agent (e.g. sulfonylurea) or with insulin. In diabetic patients, careful monitoring of blood glucose is recommended (see "Undesirable effects").

**Vision disorders**

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

**Aortic aneurysm or dissection and heart valve regurgitation/incompetence**

Epidemiologic studies report an increased risk of aortic aneurysm and dissection, particularly in elderly patients, and of aortic and mitral valve regurgitation after intake of fluoroquinolones. Cases of aortic aneurysm and dissection, sometimes complicated by rupture (including fatal ones), and of regurgitation/incompetence of any of the heart valves have been reported in patients receiving fluoroquinolones.

Therefore, fluoroquinolones should only be used after a careful benefit-risk assessment and after consideration of other therapeutic options in patients with positive family history of aneurysm disease or congenital heart valve disease, or in patients diagnosed with pre-existing aortic aneurysm and/or dissection or heart valve disease, or in presence of other risk factors or conditions predisposing.

- for both aortic aneurysm and dissection and heart valve regurgitation/incompetence (e.g. connective tissue disorders such as Marfan syndrome or Ehlers-Danlos syndrome, Turner syndrome, Behçet's disease, hypertension, rheumatoid arthritis) or additionally

- for aortic aneurysm and dissection (e.g. vascular disorders such as Takayasu arteritis or giant cell arteritis, or known atherosclerosis, or Sjögren's syndrome) or additionally

- for heart valve regurgitation/incompetence (e.g. infective endocarditis).

The risk of aortic aneurysm and dissection, and their rupture may also be increased in patients treated concurrently with systemic corticosteroids.

In case of sudden abdominal, chest or back pain, patients should be advised to immediately consult a physician in an emergency department.

Patients should be advised to seek immediate medical attention in case of acute dyspnoea, new onset of heart palpitations, or development of oedema of the abdomen or lower extremities.

**Disabling and potentially irreversible serious adverse reactions**

Fluoroquinolones, including [Moxifloxacin-Teva F.C. Tablet 400mg], have been associated with disabling and potentially irreversible serious adverse reactions from different body systems that can occur together in the same patient.

Commonly seen adverse reactions include tendinitis, tendon rupture, arthralgia, myalgia, peripheral neuropathy, and central nervous system effects (hallucinations, anxiety, depression, insomnia, severe headaches, and confusion). Patients of any age or without pre-existing risk factors have experienced these adverse reactions.

Discontinue [Moxifloxacin-Teva F.C. Tablet 400mg] immediately at the first signs or symptoms of any serious adverse reaction. In addition, avoid the use of fluoroquinolones, including [Moxifloxacin-Teva F.C. Tablet 400mg], in patients who have experienced any of these serious adverse reactions associated with fluoroquinolones.

**Psychiatric Adverse Reactions**

Fluoroquinolones, including [Moxifloxacin-Teva F.C. Tablet 400mg], have been associated with an increased risk of psychiatric adverse reactions, including: toxic psychosis, hallucinations, or paranoia; depression or suicidal thoughts or acts; anxiety, agitation, or nervousness; confusion, delirium, disorientation, or disturbances in attention; insomnia or nightmares; memory impairment. These adverse reactions may occur following the first dose. If these reactions occur in patients receiving [Moxifloxacin-Teva F.C. Tablet 400mg], discontinue [Moxifloxacin-Teva F.C. Tablet 400mg] immediately and institute appropriate measures.

**Blood Glucose Disturbances**

As with all fluoroquinolones, disturbances in blood glucose, including both hypoglycaemia and hyperglycaemia have been reported with [Moxifloxacin-Teva F.C. Tablet 400mg].

In [Moxifloxacin-Teva F.C. Tablet 400mg]-treated patients, dysglycaemia occurred predominantly in elderly diabetic patients receiving concomitant treatment with an oral hypoglycaemic agent (for example, sulfonylurea) or with insulin. Severe cases of hypoglycaemia resulting in coma or death have been reported. In diabetic patients, careful monitoring of blood glucose is recommended. If a hypoglycaemic reaction occurs, discontinue [Moxifloxacin-Teva F.C. Tablet 400mg] and initiate appropriate therapy immediately.

**4.5 Interaction with other medicinal products and other forms of interaction**

For the following substances absence of a clinically relevant interaction with Moxifloxacin was proven: atenolol, ranitidine, calcium supplements, theophylline, oral contraceptives, glibenclamide, itraconazole, digoxin, morphine, probenecid. No

dose adjustment is necessary for these drugs.

**Antacids, minerals and multi-vitamins**

Concomitant ingestion of Moxifloxacin together with antacids, minerals and multi-vitamins may result in impaired absorption of the drug due to formation of chelate complexes with the multi-valent cations contained in these preparations. This may lead to plasma concentrations considerably lower than desired. Hence, antacids, anti-retroviral drugs and other preparations containing magnesium or aluminium, sucralfate and agents containing iron or zinc should be administered at least 4 hours before or 2 hours after ingestion of an oral moxifloxacin dose.

**Warfarin**

No interaction during concomitant treatment with warfarin on prothrombin time and other coagulation parameters has been observed.

**Changes in INR (International Normalized Ratio):** Cases of increased anticoagulant activity have been reported in patients receiving anticoagulants concurrently with antibiotics, including Moxifloxacin. The infectious disease (and its accompanying inflammatory process), age and general status of the patient are risk factors. Although an interaction between Moxifloxacin and warfarin was not demonstrated in clinical trials, INR monitoring should be performed and, if necessary, the oral anticoagulant dosage should be adjusted as appropriate.

**Digoxin**

The pharmacokinetics of digoxin are not significantly influenced by moxifloxacin and vice versa. After repeated dosing in healthy volunteers moxifloxacin increased C<sub>max</sub> of digoxin by approximately 30 % at steady state without affecting AUC or trough levels.

**Charcoal**

Concomitant dosing of charcoal and 400 mg oral Moxifloxacin reduced the systemic availability of the drug by more than 80 % by preventing absorption *in vivo*. The application of activated charcoal in the early absorption phase prevents further increase of systemic exposure in cases of overdose.

After intravenous drug administration carb medicinalis only slightly reduces systemic exposure (approx. 20%).

**Food and dairy products**

Absorption of moxifloxacin was not altered by food intake (including dairy products). Therefore, Moxifloxacin can be taken independent from food intake.

An additive effect on QT interval prolongation of moxifloxacin and other medicinal products that may prolong the QTc interval cannot be excluded. This might lead to an increased risk of ventricular arrhythmias, including torsade de pointes. Therefore co-administration of moxifloxacin with any of the following medicinal products is contraindicated:

- anti-arrhythmics class IA (eg. Quinidine, hydroquinidine, disopyramide)
- anti-arrhythmics class III (e.g. amiodarone, sotalol, dofetilide, ibutilide)
- antipsychotics (e.g. phenothiazines, pimozide, sertindole, haloperidol, sultopride)
- tricyclic antidepressive agents
- certain antimicrobial agents (sparfloxacin, erythromycin IV, pentamidine, antimalarials particularly halofantrine)
- certain antihistaminics (terfenadine, astemizole, mizolastine)
- others (cisapride, vincamine IV, bepridil, diphemanil)

**4.6 PREGNANCY AND LACTATION**

**4.6.1 Pregnancy**

The safe use of Moxifloxacin in human pregnancy has not been established. Reversible joint injuries are described in children receiving some quinolones, however this effect has not been reported as occurring on exposed fetuses. Animal studies have shown reproductive toxicity. The potential risk for humans is unknown.

Consequently, the use of Moxifloxacin during pregnancy is contraindicated.

**4.6.2 Lactation**

As with other quinolones, Moxifloxacin has been shown to cause lesions in the cartilage of the weight bearing joints of immature animals. Preclinical evidence indicates that small amounts of moxifloxacin may be secreted in human milk. There is no data available in lactating or nursing women. Therefore, the use of Moxifloxacin in nursing mothers is contra-indicated.

**4.7 Effects on ability to drive and use machines**

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness. Frequencies are defined as:

common (≥ 1/100 to < 1/10),

uncommon (≥ 1/1,000 to < 1/100),

rare (≥ 1/10,000 to < 1/1,000),

very rare (< 1/10,000).

System Organ Class (Med-DRA)	Common	Uncommon	Rare	Very rare	Not known
Infections and infestations	Mycotic super-infections				
Blood and the lymphatic system disorders		Anemia Leukopenia(s) Neutropenia Thrombocytopenia Thrombocytopenia Prothrombin time prolonged / INR increased	Thromboplasmin level abnormal	Prothrombin level increased / INR decreased Prothrombin level / INR abnormal	
Immune system disorders	Allergic reaction Pruritus Rash Urticaria Blood eosinophilia	Anaphylactic / anaphylactoid reaction Allergic edema / angioedema (incl. laryngeal edema, potentially life threatening)	Anaphylactic / anaphylactoid shock (potentially life threatening)		
Metabolism and nutrition disorders	Hyperlipidemia	Hyperglycemia Hypokalemia			
Psychiatric disorders	Anxiety reactions Psychomotor hyperactivity / agitation	Emotional lability Depression <b>(in very rare cases potentially culminating in self-injurious behavior, such as suicidal ideation / thoughts or suicide attempts)</b> Hallucinations	Depersonalization Psychotic reactions, <b>(potentially culminating in self-injurious behavior, such as suicidal ideation / thoughts or suicide attempts)</b>		

System Organ Class (Med-DRA)	Common	Uncommon	Rare	Very rare	Not known
Nervous system disorders	Headache Dizziness	Parosmia Dysgeusia Taste disorders (incl. ageusia in very rare cases) Confusion and disorientation Sleep disorders Tremor Vertigo Somnolence	Hypoesthesia Smell disorders (incl. anosmia) Abnormal dreams Disturbed coordination (incl. gait disturbances, esp. due to dizziness or vertigo; <b>in very rare cases leading to fall with injuries, esp. in elderly</b> ) Seizures of various clinical manifestations (incl. grand mal convulsions) Disturbed attention Speech disorders, Amnesia	Hyperesthesia	Peripheral neuropathy (that may be irreversible) and polyneuropathy
Eye disorders		Visual disturbances (especially in the course of CNS reactions)			Transient loss of vision (especially in the course of CNS reactions)

System Organ Class (Med-DRA)	Common	Uncommon	Rare	Very rare	Not known
Ear and labyrinth disorders			Tinnitus Hearing impairment including deafness (usually reversible)		

**AAAM4051 - Moxifloxacin 400 mg - PIL, Singapore**

AAAM4051 - Moxifloxacin 400 mg -, PIL, Singapore

GENERAL INFORMATION		TECHNICAL CHECK		COLOURS/PLATES		
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teva

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Cardio-vascular system disorders	QT pro-longation in patients with hypoka-laemia	QT prol-on-gation Palpita-tions Tachycar-dia (Vasodila-tation	Ven-tricular tachy-arrhyth-mias Syncope Hyper-tension Hypo-tension	Unspecified arrhythmias <b>Torsade de Pointes * Cardiac arrest* (espe-cially in patients with severe underlying proar-rhythmic conditions such as clinically significant bradycar-dia, acute myocardial ischemia)</b>	
Respira-tory, thoracic and me-diastinal disorders		Dyspnea (including asth-matic condi-tions)			
Gastroin-testinal disorders	Nausea Vomit-ing Gastro-intestinal and ab-dominal pains Diarrhea	Decreased appetite and food intake Constipa-tion Dyspepsia Flatulence Gastro-enteritis (excl. erosive gastroen-teritis) Increased amylase	Dyspha-gia Stoma-titis Anti-biotic as-sociated colitis (in very rare cases as-sociated with life threat-ening compli-cations)		

System Organ Class (Med-DRA)	Com-mon	Uncom-mon	Rare	Very rare	Not known
Hepato-biliary disorders	Increase in trans-ami-nases	Hepatic impair-ment (incl. LDH increase) Increased bilirubin Increased gamma-glutamyl-transfer-ase Increase in blood alkaline phosphat-ase	Jaundice Hepatitis (predomi-nantly chole-static)	<b>Fulminant hepatitis potentially leading to life-threatening liver failure (incl. fatal cases )</b>	
Skin and subcu-taneous tissue disorders				<b>Bullous skin reac-tions like Stevens-Johnson-Syndrome or Toxic Epidermal Necrolysis (potentially life threat-ening)</b>	
Musculo-skeletal, connec-tive tissue and bone disorders		Arthralgia Myalgia	Tendon-itis Increased muscle tone and cramping Muscular weak-ness	<b>Tendon rupture Arthritis Gait disturbance (caused by muscular, tendon or joint symptoms) Exacerba-tion of symptoms of myasthe-nia gravis</b>	

System Organ Class (MedDRA)	Com-mon	Uncom-mon	Rare	Very rare	
Renal and urinary disorders		<b>Dehydra-tion (caused by diarrhea or reduced fluid intake)</b>	Renal impair-ment Renal failure (due to dehydra-tion esp. in elderly with pre-exist-ing renal disorders)		
General disorders and adminis-tration site conditions	Injection and infu-sion site reac-tions	Feeling unwell Unspe-cific pain Sweating Infusion site (thrombo-) phlebitis	Oedema		

The following undesirable effects have a higher frequency in the subgroup of IV/oral sequentially treated patients:

Common:	Increased gamma-glutamyl-transferase
Uncommon:	Ventricular tachyarrhythmias, Hypotension, Oedema, antibiotic associated colitis (in very rare cases associated with life threatening complications), Seizures of various clinical manifestations (incl. grand mal convulsions), Hallucination, Renal impairment and renal failure (due to dehydration esp. in elderly with pre-existing renal disorders)

#### 4.9 Overdose

Only limited data on overdose are available. Single doses of up to 1200 mg and multiple doses of 600 mg moxifloxacin over 10 days were administered to healthy subjects without any significant undesirable effects. In the event of overdose, symptomatic treatment should be implemented. ECG monitoring should be undertaken, because of the possibility of QT interval prolongation. The use of charcoal early after oral administration may be useful to prevent excessive increase of systemic exposure to moxifloxacin in cases of overdosage.

### 5. PHARMACOLOGICAL PROPERTIES

#### 5. Pharmacodynamic properties

**Pharmacotherapeutic group: Quinolone antibacterials, fluoroquinolones**

**ATC Code: J01MA 14**

Mechanism of action

Moxifloxacin is a 8-methoxy-fluoroquinolone antibiotic with a broad spectrum of activity and bactericidal action. Moxifloxacin has *in vitro* activity against a wide range of gram-positive and gram-negative organisms, anaerobes, acid-fast bacteria, and atypicals eg. *Mycoplasma* spp., *Chlamydia* spp. and *Legionella* spp. Moxifloxacin is effective against  $\beta$ -lactam and macrolide resistant bacteria. Studies in animal models of infection have demonstrated the high *in vivo* activity.

#### Resistance

Resistance mechanisms which inactivate penicillins, cephalosporins, aminoglycosides, macrolides and tetracyclines do not interfere with the antibacterial activity of moxifloxacin. There is no cross resistance between moxifloxacin and these agents. Plasmid-mediated resistance has not been observed to date. It appears that the C8-methoxy moiety contributes to enhanced activity and lower selection of resistant mutants of gram-positive bacteria compared to the C8-H moiety. The presence of the bulky bicycloamine substituent at the C-7 position prevents active efflux, a mechanism of fluoroquinolone resistance.

*In vitro* studies have demonstrated that resistance to moxifloxacin develops slowly by multiple step mutations. A very low overall frequency of resistance was demonstrated ( $10^7 - 10^{-9}$ ). Serial exposure of organisms to sub-MIC concentrations of moxifloxacin showed only a small increase in MIC values. Cross resistance among quinolones has been observed. However, some gram-positive and anaerobic organisms resistant to other quinolones are susceptible to moxifloxacin.

#### Effect on the intestinal flora in humans

In two volunteer studies, the following changes in the intestinal flora were seen following oral dosing with moxifloxacin. *E. coli*, *Bacillus* spp., *Bacteroides vulgatus*, *Enterococci*, and *Klebsiella* spp. were reduced, as were the anaerobes *Bifidobacterium*, *Eubacterium*, and *Peptostreptococcus*. These changes returned to normal within two weeks. *Clostridium difficile* toxin was not found.

Moxifloxacin has been shown to be active against most strains of the following microorganisms, both *in vitro* and in clinical infections as described in the "Indications" section.

#### In vitro Susceptibility Data

Susceptible	Inter-mediate	Resistant
<b>Gram-positive bacteria</b>		
<i>Gardnerella vaginalis</i>		
<i>Streptococcus pneumoniae</i> * including multi-drug resistant streptococcus pneumoniae strains (MDRSP) including strains known as PRSP (Penicillin-resistant <i>S. pneumoniae</i> ), and strains resistant to two or more of the following antibiotics: penicillin (MIC $\geq 2$ µg/mL), 2nd generation cephalosporins (e.g. cefuroxime), macrolides, tetracyclines, and trimethoprim/sulfamethoxazole		
<i>Streptococcus pyogenes</i> (group A)*		
<i>Streptococcus milleri</i> group ( <i>S. anginosus</i> *, <i>S. constellatus</i> *, and <i>S. intermedius</i> *)		
<i>Streptococcus viridans</i> group ( <i>S. viridans</i> , <i>S. mutans</i> , <i>S. mitis</i> , <i>S. sanguinis</i> , <i>S. salivarius</i> , <i>S. thermophilus</i> , <i>S. constellatus</i> )		
<i>Streptococcus agalactiae</i>		
<i>Streptococcus dysgalactiae</i>		

<i>Staphylococcus aureus</i> (methicillin susceptible strains) *		<i>Staphylococcus aureus</i> (methicillin/ofloxacin resistant strains) +
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Susceptible	Intermediate	Resistant
Coagulase negative Staphylococci ( <i>S. cohnii</i> , <i>S. epidermidis</i> , <i>S. haemolyticus</i> , <i>S. hominis</i> , <i>S. saprophyticus</i> , <i>S. simulans</i> ) methicillin susceptible strains.		Coagulase negative Staphylococci ( <i>S. cohnii</i> , <i>S. epidermidis</i> , <i>S. haemolyticus</i> , <i>S. hominis</i> , <i>S. saprophyticus</i> , <i>S. simulans</i> ) methicillin resistant strains
	<i>Enterococcus faecalis</i> * (Vancomycin, Gentamycin, susceptible strains only)	
	<i>Enterococcus avium</i> *	
	<i>Enterococcus faecium</i> *	

\*/\*\* Clinical efficacy has been demonstrated for susceptible isolates in approved clinical indications  
+ Moxifloxacin is not recommended for the treatment of methicillin resistant *S. aureus* (MRSA) infections. In case of a suspected or confirmed infection due to MRSA, treatment with an appropriate antibacterial agent should be started.

Susceptible	Intermediate	Resistant
<b>Gram-negative bacteria</b>		
<i>Haemophilus influenzae</i> (including $\beta$ lactamase negative and positive strains) *		
<i>Haemophilus parainfluenzae</i> *		
<i>Moraxella catarrhalis</i> (including $\beta$ lactamase negative and positive strains) *		
<i>Bordetella pertussis</i>		
<i>Legionella pneumophila</i>	<i>Escherichia coli</i> *	
<i>Acinetobacter baumannii</i>	<i>Klebsiella pneumoniae</i> *	
	<i>Klebsiella oxytoca</i>	
	<i>Citrobacter freundii</i> *	
	<i>Enterobacter</i> species ( <i>E. aerogenes</i> , <i>E. intermedius</i> , <i>E. sakazaki</i> )	
	<i>Enterobacter cloacae</i> *	

Susceptible	Intermediate	Resistant
<b>Gram-negative bacteria</b>		
	<i>Pantoea agglomerans</i>	
		<i>Pseudomonas aeruginosa</i>
	<i>Pseudomonas fluorescens</i>	
	<i>Burkholderia cepacia</i>	
	<i>Stenotrophomonas maltophilia</i>	
	<i>Proteus mirabilis</i> *	
<i>Proteus vulgaris</i>	<i>Morganella morganii</i>	
	<i>Neisseria gonorrhoea</i> **	
	<i>Providencia</i> species ( <i>P. rettgeri</i> , <i>P. stuartii</i> )	

\*/\*\* Clinical efficacy has been demonstrated for susceptible isolates in approved clinical indications

Susceptible	Intermediate	Resistant
<b>Anaerobes</b>		
	<i>Bacteroides</i> sp ( <i>B. fragilis</i> *, <i>B. distasoni</i> *, <i>B. thetaiotaomicron</i> *, <i>B. ovatus</i> *, <i>B. uniformis</i> *, <i>B. vulgaris</i> *)	
<i>Fusobacterium</i> spp		
	<i>Peptostreptococcus</i> spp. *	
<i>Porphyromonas</i> spp		
<i>Prevotella</i> spp		
<i>Propionibacterium</i> spp.		
	<i>Clostridium</i> sp *	

\*/\*\* Clinical efficacy has been demonstrated for susceptible isolates in approved clinical indications

Susceptible	Interme-diate	Resis-tant
<b>Atypicals</b>		
<i>Chlamydia pneumoniae</i> *		
<i>Chlamydia trachomatis</i> **		
<i>Mycoplasma pneumoniae</i> *		
<i>Mycoplasma hominis</i>		
<i>Mycoplasma genitalium</i>		
<i>Legionella pneumophila</i> *		
<i>Coxiella burnetii</i>		

\*/\*\* Clinical efficacy has been demonstrated for susceptible isolates in approved clinical indications

The frequency of acquired resistance may vary geographically and with time for certain species. Local area information on resistance of organisms is desirable, particularly when treating severe infections. The above information is provided as a guide on the probability of an organism being susceptible to moxifloxacin. Comparison of PK/PD surrogates for intravenous and oral administration of a 400 mg Moxifloxacin single dose.

In patients requiring hospitalisation AUC/MIC<sub>0-24</sub> parameters greater than 125 and C<sub>max</sub> / MIC<sub>0</sub> of 8 - 10 is predictive for clinical cure (Schentag). In outpatients these surrogate parameters are generally smaller, i.e. AUC/MIC<sub>0</sub> greater than 30-40 (Dudley and Ambrose).

The following table provides the respective PK/PD surrogates for intravenous and oral administration of 400 mg moxifloxacin calculated from single dose data:

Mode of adminis-tration	Intravenous		oral	
Parameter (median)	AUC [h]	Cmax/ MIC <sub>0-24</sub>	AUC [h]	C <sub>max</sub> /MIC <sub>0</sub>
MIC <sub>0</sub> 0.125 mg/L	313	32.5	279	23.6
MIC <sub>0</sub> 0.25 mg/L	156	16.2	140	11.8
MIC <sub>0</sub> 0.5 mg/L	78	8.1	70	5.9

\*1h infusion

#### PHARMACOKINETIC PROPERTIES

##### Absorption and bioavailability:

Following oral administration moxifloxacin is absorbed rapidly and almost completely. The absolute bioavailability amounts to approx. 91%.

Pharmacokinetics are linear in the range of 50 - 1200 mg single dose and up to 600 mg once daily dosing over 10 days. Steady state is reached within 3 days. Following a 400 mg oral dose peak concentrations of 3.1 mg/l are reached within 0.5 - 4 h post administration. Peak and trough plasma concentrations at steady state (400 mg once daily) were 3.2 and 0.6 mg/l, respectively. Concomitant administration of moxifloxacin together with food slightly prolongs the time to reach peak concentrations by approximately 2 hours and slightly reduced peak concentrations by approximately 16%. Extent of absorption remained unchanged. As AUC/MIC is most predictive for antimicrobial efficacy of quinolones, this effect is clinically not relevant. Therefore, Moxifloxacin can be administered independently from meals.

After a single 400 mg intravenous 1 h infusion peak concentrations of approximately 4.1 mg/L were reached in the plasma at the end of infusion which corresponds to a mean increase of approx. 26 % relative to the oral application. Exposure to drug in terms of AUC at a value of approximately 39 mg\**h*/L is only slightly higher compared to the exposure after oral administration (35 mg\**h*/L) in accordance with the absolute bioavailability of approximately 91%.

Following multiple intravenous dosing (1h infusion), peak and trough plasma concentrations at steady state (400 mg once daily) were between 4.1 to 5.9 and 0.43 to 0.84 mg/L respectively. At steady-state the exposure to drug within the dosing interval is approximately 30 % higher than after the first dose. In patients mean steady state concentrations of 4.4 mg/l were observed at the end of a 1h infusion.

##### Distribution:

Moxifloxacin is distributed very rapidly to extravascular spaces. Exposure to drug in terms of AUC (AUC<sub>0-24</sub> = 6 kg\**h*/l) is high with a volume of distribution at steady state (V<sub>d</sub>) of approx. 2 l/kg. In saliva peak concentrations higher than those of plasma may be reached. In *in vitro* and *ex-vivo* experiments over a range of 0.02 to 2 mg/l a protein binding of approximately 45 % independent from the concentration of the drug was determined. Moxifloxacin is mainly bound to serum albumin. Due to this low value high free peak concentrations > 10 x MIC are observed.

Moxifloxacin reaches high concentrations in tissues like lung (epithelial fluid, alveolar macrophages, biotic tissue), the sinuses (maxillary and ethmoid sinus, nasal polyp) and inflamed lesions (cantharide blister fluid) where total concentrations exceeding those of the plasma concentrations are reached. High free drug concentrations are measured in interstitial body water (saliva, intramuscular, subcutaneous). In addition, high drug concentrations were detected in abdominal tissues and fluids and female genital tract.

Tissue	Concentra-tion (p.o.)	Site: Plasma ratio (p.o.)
Plasma	3.1	mg/L --
Saliva	3.6	mg/L 0.75 -1.3
Blister fluid	1.6 <sup>a</sup>	mg/L 1.7 <sup>a</sup>
Bronchial mucosa	5.4	mg/kg 1.7 - 2.1
Alveolar Macrophages	56.7	mg/kg 18.6 - 70.0
Epithelial lining fluid	20.7	mg/L 5 - 7
Maxillary sinus	7.5	mg/kg 2.0
Ethmoid sinus	8.2	mg/kg 2.1
Nasal Polyps	9.1	mg/kg 2.6
Interstitial fluid	1.0 <sup>2</sup>	mg/L 0.8-1.4 <sup>2,3</sup>

Tissue	Concentration (i.v.)	Site: Plasma ratio (i.v.)
Plasma	4.1	mg/L --

Saliva	5.0	mg/L 0.82 - 1.37
Blister fluid	1.75 <sup>1</sup>	mg/L 1.71
Interstitial fluid	1.0 <sup>2</sup>	mg/L 0.8-2.5 <sup>1,3</sup>
Abdominal tissue <sup>4</sup>	7.03	mg/L 1.56
Abdominal exudate <sup>5</sup>	3.32	mg/L 1.45
Abscess fluid <sup>6</sup>	1.94	mg/L 0.74
Female genital tract <sup>7</sup>	10.2	mg/L 1.72

<sup>1</sup>10 h after administration

<sup>2</sup>unbound concentration

<sup>3</sup>from 3 h up to 36 h post dose

<sup>4</sup>at the end of infusion

<sup>5</sup>2 hours after adminis-tration

<sup>6</sup>3 h after administration

The peak concentrations and site vs. plasma concentration ratios for various target tissues yielded comparable results for both modes of drug administration after a single dose of 400 mg moxifloxacin.

#### Metabolism:

Moxifloxacin undergoes Phase II biotransformation and is excreted via renal and biliary/faecal pathways as unchanged drug as well as in form of a sulfo-compound (M1) and a glucuronide (M2). M1 and M2 are the only metabolites relevant in humans, both are microbiologically inactive. Neither in *in vitro* nor in clinical Phase I studies metabolic pharmacokinetic interactions with other drugs undergoing Phase I biotransformation involving Cytochrome P-450 enzymes were observed. Independent from the route of administration the metabolites M1 and M2 are found in the plasma at concentrations lower than the parent drug. Preclinical investigations adequately covered both metabolites thus excluding potential implications with respect to safety and tolerability.

#### Elimination:

Moxifloxacin is eliminated from plasma with a mean terminal half life of approximately 12 hours. The mean apparent total body clearance following a 400 mg dose ranges from 179 to 246 ml/min. Renal clearance amounted to about 24 - 53 ml/min suggesting partial tubular reabsorption of the drug from the kidneys. Concomitant administration of ranitidine and probenecid did not alter renal clearance of the drug (see table below). Mass balance of the mother compound and Phase II metabolites of moxifloxacin yielded an almost complete recovery of approx. 96-98% independent from the route of administration with no indication of oxidative metabolism. A detailed overview of the mass balance according to elimination pathways (renal vs non-renal, metabolic vs. non-metabolic) and mode of application is given in the table below.

Recovery of a 400 mg single dose (arithmetic mean  $\pm$  standard deviation (SD))

	Moxi-floxa-cin	Sulfo-compound (M1)	Glucuro-nide (M2)	$\Sigma$
Urine p.o.	19.4 $\pm$ 1.2	2.5 $\pm$ 0.6	13.6 $\pm$ 2.8	35.4 $\pm$ 1.8
Faeces p.o.	25.4 $\pm$ 3.1	35.5 $\pm$ 3.2	-	60.9 $\pm$ 4.3
$\Sigma$ p.o. (n=6)	44.8 $\pm$ 3.3	37.9 $\pm$ 3.6	13.6 $\pm$ 2.8	96.3 $\pm$ 4.3
Urine i.v.	21.9 $\pm$ 3.6	2.5 $\pm$ 0.9	13.8 $\pm$ 2.0	38.1 $\pm$ 2.1
Faeces i.v.	25.9 $\pm$ 4.3	34.4 $\pm$ 5.6	-	60.2 $\pm$ 9.2
$\Sigma$ i.v. (n=5)	47.8 $\pm$ 7.2	36.8 $\pm$ 5.9	13.8 $\pm$ 2.0	98.4 $\pm$ 10.5

#### Geriatric patients:

Pharmacokinetics of moxifloxacin are not affected by age.

#### Gender:

There was a 33% difference in the pharmacokinetics (AUC, C<sub>max</sub>) of moxifloxacin between male and female subjects. Drug absorption was unaffected by gender. These differences in the AUC and C<sub>max</sub> were attributable to the differences in body weight rather than gender. They are not considered as clinically relevant.

#### Ethnic differences:

Possible interethnic differences were examined in Caucasian, Japanese, Black and other ethnic groups. No clinically relevant interethnic differences in pharmacokinetics could be detected.

#### Children and adolescents

Pharmacokinetics of moxifloxacin were not studied in paediatric patients.

#### Patients with renal impairment:

The pharmacokinetics of moxifloxacin are not significantly changed by renal impairment (including creatinine clearance < 30 ml/min/1.73m<sub>2</sub>) and in patients on chronic dialysis i.e. hemodialysis and continuous ambulatory peritoneal dialysis.

#### Patients with hepatic impairment:

Moxifloxacin plasma concentrations of patients with mild to severe hepatic impairment (Child Pugh A to C) did not reveal clinically relevant differences compared to healthy volunteers or patients with normal hepatic function, respectively (see "Special Warnings and Precautions for use" in Child Pugh C Patients). There is no experience in patients with severe hepatic impairment (Child Pugh C).

#### PRECLINICAL SAFETY DATA

In a local tolerability study performed in dogs, no signs of local intolerance were seen when moxifloxacin was administered intravenously. After intra-arterial injection inflammatory changes involving the peri-arterial soft tissue were observed suggesting that intra-arterial administration of moxifloxacin should be avoided.

#### Carcinogenicity, Mutagenicity:

Moxifloxacin, like other quinolones, was genotoxic *in vitro* tests using bacteria or mammalian cells. Since these effects can be explained by an interaction with the gyrase in bacteria and -at higher concentrations- by an interaction with the topoisomerase II in mammalian cells, a threshold concentration for genotoxicity can be assumed. In *in-vivo* tests, no evidence of genotoxicity was found despite the fact that very high moxifloxacin doses were used. Thus, a sufficient margin of safety to the therapeutic dose in man can be provided. Moxifloxacin was non-carcinogenic in an initiation-promotion study in rats.

#### ECG:

At high concentrations, moxifloxacin is an inhibitor of the delayed rectifier potassium current of the heart and may thus cause prolongations of the QT-interval. Toxicological studies performed in dogs using oral doses of  $\geq 90$  mg/kg leading to plasma concentrations  $\geq 16$  mg/l caused QT-prolongations, but no arrhythmias. Only after very high cumulative intravenous administration of more than 50 fold the human dose (> 300 mg/kg) leading to plasma concentrations of  $\geq 200$  mg/l (more than 30 fold the therapeutic level after intravenous administration), reversible, non-fatal ventricular arrhythmias were seen.

#### Arthrototoxicity:

Quinolones are known to cause lesions in the cartilage of the major diarthrodial joints in immature animals. The lowest oral dose of moxifloxacin causing joint toxicity in juvenile dogs was four times maximum recommended therapeutic dose (400 mg/50 kg person) on a mg/kg basis, with plasma concentrations two to three times higher than those at the recommended therapeutic dose.

#### Reprotoxicity:

Reproductive studies performed in rats, rabbits and monkeys indicate that placental transfer of moxifloxacin occurs. Studies in rats (per os and i.v.) and monkeys (per os) did not show evidence of teratogenicity or impairment of fertility following administration of moxifloxacin. Skeletal malformations were observed in rabbits that had been treated with an intravenous dose of 20 mg/kg. This study result is consistent with the known effects of quinolones on skeletal development (see "Pregnancy and lactation"). There was an increase in the incidence of abortions in monkeys and rabbits at human therapeutic concentrations. In rats, decreased foetal weights, an increased prenatal loss, a slightly increased duration of pregnancy and an increased spontaneous activity of some male and female offspring was observed at doses which were 63 times the maximum recommended dose on a mg/kg basis with plasma concentrations in the range of the human therapeutic dose.

#### PHARMACEUTICAL PARTICULARS

##### List of excipients:

##### Film-coated tablets:

##### Excipients:

Mannitol, Silica Colloidal anhydrous, Cellulose microcrystalline, Sodium starch glycolate, Hydroxypropyl cellulose, Magnesium Stearate, Talc

##### Film-Coating: OPADRY II PINK (85F240037)

Polyvinyl alcohol part hydrolyzed, Titanium dioxide, Macrogol / PEG, Talc, Iron oxide yellow, Iron oxide red

#### Incompatibilities

Film-coated tablets: Not applicable

#### Special precautions for use include storage recommendations:

Store in the original container.

Store in original packaging to protect from moisture.

#### Not to be stored above 30°C.

#### Shelf-life: 36 months.

#### Keep all medicines out of the reach of children.

#### Please read package insert carefully. Ask your doctor for more information.

#### Presentation 5 tablets in blister pack

#### Manufactured by: PHARMATHEN S.A.

Dervenkion 6, Pallini 15351, Attiki Greece

Date of last revision of text: November 2020

### AAAM4051 - Moxifloxacin 400 mg - , PIL, Singapore