

# BEMOX<sup>®</sup>

(MOXIFLOXACIN 400mg) Tablets

بی ماکس  
(مکسی فلوکساسن ۴۰۰ ملی گرام)

## COMPOSITION:

Each film coated tablet contains:  
Moxifloxacin (As Hydrochloride): ..... 400mg

## PHARMACOLOGICAL PROPERTIES:

Moxifloxacin is a fluoroquinolone antibacterial 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 e.g. 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. Moxifloxacin has been shown to be active against most strains of the following microorganisms; both in vitro and in clinical infections.

### Gram-positive microorganisms

Staphylococcus aureus (including methicillin-sensitive strains)  
Streptococcus pneumoniae (including penicillin and macrolide resistant strains)  
Streptococcus pyogenes (Group A)

### Gram-negative microorganisms

Haemophilus influenzae (including  $\beta$ -lactamase negative and positive strains)  
Haemophilus parainfluenzae  
Klebsiella pneumoniae  
Moraxella catarrhalis (including  $\beta$ -lactamase negative and positive strains)  
Escherichia coli  
Enterobacter cloacae

### Atypicals

Chlamydia pneumoniae  
Mycoplasma pneumoniae

According to in vitro studies, the following organisms are sensitive to Moxifloxacin, however, the safety and effectiveness of Moxifloxacin in treating clinical infections due to these microorganisms has not been established in adequate and well-controlled clinical trials.

### Gram-positive microorganisms

Streptococcus milleri  
Streptococcus mitior  
Streptococcus agalactiae  
Streptococcus dysgalactiae  
Staphylococcus cohnii  
Staphylococcus epidermidis (including methicillin sensitive strains)  
Staphylococcus haemolyticus  
Staphylococcus hominis  
Staphylococcus saprophyticus  
Staphylococcus simulans  
Corynebacterium diphtheria

### Gram-negative microorganisms

Bordetella pertussis  
Klebsiella oxytoca  
Enterobacter aerogenes  
Enterobacter agglomerans  
Enterobacter intermedium  
Enterobacter sakazakii  
Proteus mirabilis  
Proteus vulgaris  
Morganella morganii  
Providencia rettgeri  
Providencia stuartii

### Anaerobes

Bacteroides distans  
Bacteroides eggerthii  
Bacteroides fragilis  
Bacteroides ovatus  
Bacteroides thetaiotaomicron  
Bacteroides uniformis  
Fusobacterium spp  
Porphyromonas spp  
Porphyromonas anaerobius  
Porphyromonas asacharolyticus  
Porphyromonas magnus  
Prevotella spp  
Propionibacterium spp  
Clostridium perfringens  
Clostridium ramosum

### Atypicals

Legionella pneumophila  
Caxiella burnettii

### Mode of Action

The bactericidal action results from the interference with topoisomerase II and IV. Topoisomerases are essential enzymes which control DNA topology and assist in DNA replication, repair and transcription.

Moxifloxacin exhibits concentration dependent bactericidal killing. Minimum bactericidal concentrations are generally similar to minimum inhibitory concentrations.

## INDICATIONS

Bemox tablets are indicated for the treatment of adults (>18 years of age) with upper and lower respiratory tract infections such as:

- Acute sinusitis
- Acute exacerbations of chronic bronchitis.
- Community acquired pneumonia.
- Skin and soft tissue infection.
- Complicated intraabdominal infections.

## CONTRAINDICATIONS

Known hypersensitivity to any component of the tablets or other quinolones.  
Bemox tablets are contraindicated in children, growing adolescents and pregnant women.

## WARNINGS AND PRECAUTIONS

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 lowers the seizure threshold. As no pharmacokinetic and pharmacodynamic data are available in severe hepatic impairment (Child Pugh C), the use of Moxifloxacin in this patient group is not recommended. Moxifloxacin, as with some other quinolones and macrolides, has been shown to prolong the QT interval of the electrocardiogram in some patients.

## UNDESIRABLE EFFECTS

In Moxifloxacin clinical trials the majority of adverse drug reactions (ADRs) were described as mild to moderate (over 90%). The discontinuation rate of Moxifloxacin - treated patients due to ADRs was 3.8%. The most common adverse drug reactions (relationship defined as probable, possible or not assessable) based on all clinical studies with Moxifloxacin are abdominal pain, headache, nausea, diarrhoea, dyspepsia, dizziness and prolongation of QT intervals.

## DRUG INTERACTIONS

Absorption of Moxifloxacin was not altered by food intake. Therefore Moxifloxacin can be taken independent from food intake.

**Ranitidine:** The concomitant administration with ranitidine did not change the absorption characteristics of moxifloxacin significantly.

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

**Digoxin:** The pharmacokinetics of digoxin is not significantly influenced by Moxifloxacin (and vice versa).

**Theophylline:** No influence of Moxifloxacin on theophylline pharmacokinetics (and vice versa) at steady state was detected, indicating that Moxifloxacin does not interfere with the 1A2 subtypes of the cytochrome P450 enzymes. Theophylline concentrations were not elevated at steady state during combined treatment with Moxifloxacin (C<sub>max</sub> 10.5 vs 10.1mg/l, without theophylline). Hence, no adjustment is required with respect to theophylline dosing pattern.

## OVERDOSE

Only limited data on overdose is available. Single doses of up to 800 mg and multiple doses of 600 mg over 10 days were administered to healthy subjects without any significant, undesirable effects. In the event of over dosage, it is recommended that appropriate supportive care should be instituted as dictated by the patients clinical status.

## DOSAGE AND ADMINISTRATION

### Range of dose

The recommended dose for Moxifloxacin is one tablet (400 mg) once-daily for all indications.

### Method of administration-Adults

The tablets are swallowed whole with a glass of water. They can be taken independent of food intake.

### Duration of treatment

The duration of treatment should be determined by the severity of the indication or clinical response. The following general recommendations for the treatment of upper and lower respiratory tract infections are made:-

- Acute exacerbation of chronic bronchitis, 5 days
- Community acquired pneumonia, 10 days
- Acute sinusitis 7 days
- Skin or soft tissue infection in 7 days
- Complicated intra-abdominal infections 7 days
- Bemox 400 mg tablets have been studied in clinical trials for up to 14 days treatment.

### Elderly

No adjustment of dosage is required in the elderly.

### Children

The use of Moxifloxacin in children and adolescents in the growth phase is not recommended.

### Hepatic Impairment

No dosage adjustment is required in patients with slightly impaired liver function (Child-Pugh A,B). No pharmacokinetic data is available for patients with severely impaired liver function (Child-Pugh C).

### Renal impairment

No dose adjustment is required in patients with mild degree of renal impairment (including creatinine clearance a <30ml/min/1.73m<sup>2</sup>). There is no pharmacokinetic data available in patients on dialysis treatment.

## STORAGE:

Protect from moisture, freezing and excessive heat.  
Keep all medicines out of the reach of children.

خوراک:  
دائری ہدایت کے مطابق استعمال کریں۔

## HOW SUPPLIED:

Bemox tablets are available in Alu,Alu blister pack of 1 x 5 tablets.

بالیات:  
خنگ جگہ پر ۱x۵ ڈگری پینیٹی گریٹ سے کم دبیجرات پر رکھیں۔  
بچوں کی دستوں سے دور رکھیں۔  
سورج کی روشنی سے بچائیں۔  
صرف مشورہ ڈاکٹر کے نتیجے پر فروخت کریں۔



Manufactured by:

**DYSON Research Laboratories (Pvt) LTD.**

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**ISO 9001:2015 CERTIFIED COMPANY**