



DESCRIPTION: TWIG (Modificoacin) is a synthetic fluroquinolone antibacterial agent, available as the monohydrochloride salt. QUALITATIVE AND QUANTITATIVE COMPOSITION: TWIG (Modificoacin) is available for oral administration as:

QUALITATIVE AND QUANTITATIVI
TWIG (Moxifloxacin) is available for
TWIG 400mg Tablets
Each film coated tablet contains:
Moxifloxacin as Moxifloxacin HCI US
(Product Spees: USP)
CLINICAL PHARMACOLOGY:

ontains: acin HCl USP......400mg

CLINICAL PHARMACOLOGY.

Mechanism of Action:

Moxilloacari is bactericidal against a range of Gram-positive and Gram-negative organisms. Such activity arises through the inhibition of DNA gyrase (topoisomerase II) and topoisomerase IV, which bacteria require for DNA replication, transcription, repair and recombination. Moxilloxacin contains the C8-methoxy molety that augment its antibacterial activity and reduces the possibility of Gram-positive mutations. Because the F-Ildroquinolones use a different mechanism of action than do the aminoplycosides, beta-lactanns, macrolides, or tetracyclines, there has been on cross resistance between the quinolones and these antimicrobial agents.

Microbiology:

Aerobic Gram-positive micro-organisms: Staphylococcus oursus (methicillin-susceptible). Streptococcus pneumonies, Str

onginosus.

Aerolic Gram-negative micro-organisms: Hoemophilus influenzoe, Hoemophilus parainfluenzoe, Klebsiella
pneumoniae, Morazella catarrhalis, Enterobacter cloacae, Escherichia coli and Protaus mitabilis.

Anaerobic micro-organisms: Fusobacterium speedes, Prevoiella speedes and Peptestreptococcus species.

Others: Chiamping preumoniae, Mycopatsma pneumoniae, Legionella pneumophilia and Mycobacterium leprae.

Others: Chlamydia pneumoniae, Mycoplasma pneumoniae, Legionella pneumophila and Mycobacterium leprae Pharmacokinetics: Moxifloxacin is readily absorbed from the gastrointestinal tract with an absolute bloavailability of about 90%. It is widely distributed throughout the body tissues and is approximately 50% bound to plasma proteins. Moxifloxacin has an elimination half life of approximately 12 hours, allowing once daily dosing; it is matabilised principally via sulpidate and glucuronide conjugation. About 45% of the drug is excreted in the urine and the fices as unchanged drug. The sulphate conjugation about 45% of the drug is excreted in the glucuronide exclusively in the urine.

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Special Population:
Renal Impairment: No dosage adjustment is required in patients with any degree of renal Impairment.
Hepatic Impairment: No dosage adjustment is required in patients with slightly impaired liver function.
THERAPEUTIC INDICATIONS:
THIERAPEUTIC INDICATIONS:

- Acute bacterial simusitis.
- Acute bacterial simusitis.
- Acute bacterial securchation of chronic bronchitis.
- Complicated skin and skin structure infections.

DOSAGE AND ADMINISTRATION:
The usual adult dose of TWIG (Moxifloxacin) is 400mg once every 24 hours. The duration of therapy depends on the type and severity of infection as described in the table below. TWIG Tablet can be taken independent of food intake.

Infections	Daily Dosage	Duration
Acute Bacterial Sinusitis	400mg	7 Days
Acute Bacterial Exacerbation of Chronic Bronchitis	400mg	5 - 10 Days
Community Acquired Pneumonia	400mg	10 Days
Complicated Skin and Skin Structure Infections	400mg	7 - 21 Days

- Infections

 CONTRAINDICATIONS:
 Mostification is contraindicated in patients:
 With hypersensitivity to mostificate or other quinolones and any component of this medication.
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WARNING: Fluoroquinolones, including MOXIFLOXACIN are associated with an increased risk of tendinitis and tendon rupture in all ages. This risk is further increased in older patients usually over 60 years of age, in patients taking corticostroid drugs, and in patients with kidney, heart or lung transplants. MOXIFLOXACIN should be discontinued if the patient experiences pair, sveiling, infalmmation or rupture of a tendon. Patients should be advised to rest at the first sign of tendinits or tendon rupture, and to contact their healthcare provider regarding changing to a more quindone.

Use TWIG with caution in;
Patients with ongoing prosrrhythmic conditions (especially women and elderly patients), such as acute
myocardial ischemia or QT prolongation as this may lead to an increased risk for ventricular arrhythmias and
cardiac arrest, Psychotic patients or in patients with history of psychiatric disease, Patients with known or
suspected CNS disorders or in the presence of other risk factors that may predispose to seitures, diabetes as
glucose regulation may be altered, Patients with a family history of, or actual glucose-6-phosphate
dehydrogenase deficiency as they are prone to hemolytic reactions, Patients with myasthenia gravis because
the symptoms can be exacerbated, Patients with renal disorders if they are unable to maintain adequate fluid
intake because dehydration may increase the risk of renal failure.
Discontinued TWIG ri;
- Signs of cardiac arrhythmias occur during treatment with TWIG, Depression or psychotic reactions have
progressed to suicidal thoughts and self-injurious behavior such as suicide attempts, Severe hyperensitivity
reactions; including anaphylosis.
- Cases of bullous skins reactions like Stevens-Johnson syndrome or toxic epidermal necrolysis have been
reported with modificacin sharing steading anaphylosis.
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Pregnancy and Lactation: ntraindicated in pregnancy and lactation.

DRUG INTERACTIONS:

- INGU SINTEMACTIONS:

 Moxifloxacin should be taken at least 4 hours before or 8 hours after antacids containing magnesium, calcium or aluminium, as well as sucralfate, metal cations such as *iron*, and *multivitamin preparations* with
- calcium or aluminium, as well as *sucroflete*, metal cathons such as *tron*, and *multivitamin preparations* with alice or diclaracies.

 Medication that can reduce potassium levels should be used with caution in patients receiving mosifloxacin.

 Concomitant administration of *charcoal* with an oral dose of 400mg mosifloxacin leads to a pronounced prevention of drug absorption and a reduce systemic availability of the drug by more than 80%. Therefore, the concomitant use of these two drugs is not recommended (except for overdose cases).

 "The prothrombin time, international Normalized fasio (INR), or other suitable anticoagulation tests should be closely monotioned if a quinoined is administered concomitantly with wayfrian or its derivatives.

 Concomitant administration of *NSAIDs* with quinolones may increase the risks of CNS stimulation and

ADVERSE REACTIONS:

ADVERS ERACTIONS:

Monifloracin was usually well tolerated. Most adverse reactions were mild to moderate.

Common: Headache, dizziness, abdominal pain, nausea, vomiting, GT prolongation in patients with hypokalemia, Increase in transaminases, super infection due to resistant bacteria and diarrhea.

Uncommon: Annersia, constipation, dyspepsia, flatulence, gastritis, increase amylase, GT prolongation, palpitations, technyardia, aging perctoris, dyspense, baptate impairment, purrutur, scah, untrair, dry skinn, arthralgia, myalgia, dehydration, visual disturbances, anxiety reactions, taste disorders, paresthesia/dysesthesia, hyperligidemia, anemia, leucopenia, neutropenia and thrombotyotpenia.

Rare: Dysphagia, pseudomembranous colitis, ventricular tachyarrhythmias, syncope, hypertension, hypotension, vasodilation, finnius, seizures, disturbed attention, speech disorders, anaphysias, allergize edema, hypergylevemia, hyperuricemia, depression, hallucination and prothrombin time prolongation.

OVERDOSE:

OVERDOSE:

In the event of overdose, symptomatic treatment should be implemented. ECG monitoring should be undertaken, because of the possibility of QT interval prolongation. Concomitant administration of charcoal with a dose of Along oral monitoration will reduce systemic availability of the drug. The use of Charcoal early during absorption may be useful to prevent excessive increase in the systemic exposure to monifloxacin.

INSTRUCTIONS:

- Store below 30°C.

- Protect from light & moisture.

- Keep out of reach of children.

To be sold on prescription of a registered medical practitioner only. HOW SUPPLIED:

TWIG (Moxifloxacin) 400mg Tablets are available in pack of 5's.

خوراک: ڈاکٹری ہدایت کےمطابق استعال کریں۔ مدایات: دواکوس و گریسننی گریدے م درجه حرارت پر رکیس۔ روشی اورنی سے بیمائیں۔ بچوں کی کی سے دورر کھیں۔ اعتاه: صرف رجشر ڈؤاکٹر کے نینے کےمطابق فروخت کریں۔



E-50, North Western Industrial Zone, Port Qasim Authority, Karachi, Pakistan