

ACTION

Factive (gemifloxacin mesylate) is a synthetic broad-spectrum antibacterial agent for oral administration. Gemifloxacin, a compound related to the fluoroquinolone class of antibiotics, is available as the mesylate salt in the sesquihydrate form

Factive is indicated for the treatment of infections caused by susceptible strains of the following microorganisms:

Aerobic Gram-positive:

Streptococcus pneumoniae (including penicillin, macrolide and most ofloxacin/ levofloxacin resistant and MDRSP; multi-drug resistant streptococcus pneumonia formerly known as penicillin resistant streptococcus pnuemoniae) Streptoccocus pyogenes (including macrolide resistant), Streptoccocus viridans, Streptococcus agalactiae, Streptococcus milleri, Streptococcus anginosius, Streptococcus constellatus, Streptococcus mitis, Streptococcus species, Staphylococcus aureus (methicillin sensitive), Staphylococcus epide Staphylococcus saprophyticus, Staphylococcus haemolyticus, Staphylococcus species, Enterococcus faecalis, Enterococcus faecium, Enterococcus species. Aerobic Gram-negative:

Haemophilus influenzae (beta lactamase positive and negative), Haemophilus parainfluenzae, Haemophilus species, Moraxella catarrhalis (beta lactamase positive and negative), Moraxella species, Klebsiella pneumoniae, Klebsiella oxytoca, Klebsiella species, Escherichia coli, Neisseria gonorrhoeae, Neisseria species, Acinetobacter Iwof, Acinetobacter anitratus, Acinetobacter calcoaceticus, Acinetobacter haemolyticus, Acinetobacter species, Citrobacter freundii, Citrobacter koseri, Citrobacter species, Salmonella species, Shigella species, Enterobacter cioacae, Enterobacter aerogenes, Enterobacter species, Serratia marcescens, Serratia species, Proteus mirabilis, Proteus vulgaris, Proteus species, Providencia species, Morganella morganii, Morganella species, Yersinia species, Pseudomonas aeruginosa, Pseudomonas species, Bordetella pertussis, Bordetella species Atypicals:

Coxiella burnetti, Coxiella species, Mycoplasma pneumoniae, Mycoplasma species, Legionella pneumophila, Legionella species, Chiamydia pneumoniae, Chiamydia species.

Anaerobes.

Peptostreptococcus species, Clostridium non-perfringens, Clostridium perfringens, Clostridium species, Fusobacterium species, Porphyromonas species, Prevotella species

Factive is indicated for the treatment of infections caused by susceptible microorganisms in the following condition

- · Acute bacterial exacerbation of chronic bronchitis
- Community-acquired pneumonia
- Acute bacterial sinus

DOSAGE AND ADMINISTRATION

Factive can be taken with or without food and should be swallowed whole with a liberal amount of liquid. The recommended dose of Factive is 320 mg daily, as the following

- · Acute bacterial exacerbation of chronic bronchitis: One 320 mg tablet daily for 5 days.
- . Community-acquired pneumonia (CAP): One 320 mg tablet daily from 5 to 7 days
- . Acute bacterial sinusitis: One 320 mg tablet daily for 5 days.
- The recommended dose and duration of Factive should not be exceeded.
- · Renally Impaired Patients: Dose adjustment in patients with creatinine clearance > 40 mL/min is not required. Modification of the dosage is recommended for
- patients with creatinine clearance ≤ 40 mL/min. (i.e, to take160 mg every 24h).

 Use in Hepatically Impaired Patients or elderly: No dosage adjustment is required.

CONTRAINDICATIONS

Gemifloxacin is contraindicated in patients with a history of hypersensitivity to gemifloxacin, fluoroquinolone antibiotic agents, or any of the product components.

QT Effects: Fluoroquinolones may prolong the QT interval in some patients Gemifloxacin should be avoided in patients with a history of prolongation of the QTc interval, patients with uncorrected electrolyte disorders (hypokalemia or hypomagnesemia), and patients receiving some kinds of antiarrhythmic agents

Hypersensitivity Reactions: Serious and occasionally fatal hypersensitivity and/or anaphylactic reactions have been reported in patients receiving fluoroquinolone therapy. These reactions may occur following the first dose.

Gemifloxacin should be discontinued immediately at the appearance of any sign of an immediate type I hypersensitivity skin rash or any other manifestation of a hypersensitivity reaction; the need for continued fluoroquinclone therapy should be evaluated.

Tendon Effects: Ruptures of the shoulder, hand, Achilles tendon or other tendons that required surgical repair or resulted in prolonged disability have been reported in patients receiving quinolones. Gemifloxacin should be discontinued if the patient experiences pain, inflammation, or rupture of a tendon.

CNS Effects: In clinical studies with gemifloxacin, central nervous system (CNS) effects have been reported infrequently. As with other fluoroquinolones, gemifloxacin should be used with caution in patients with CNS diseases such as epilepsy or patients predisposed to convulsions.

Antibiotic Associated Colitis: Pseudomembranous colitis has been reported with nearly all antibacterial agents, including gemifloxacin, and may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of any antibacterial agent.

PRECAUTIONS

Pregnancy: Pregnancy Category C; the safety of gemifloxacin in pregnant women has not been established. Gemifloxacin should not be used in pregnant women unless the potential benefit to the mother outweighs the risk to the fetus. There are no adequate and well-controlled studies in pregnant women.

Nursing Mothers: Gemifloxacin is excreted in the breast milk of rats. There is no information on excretion of gemifloxacin into human milk. Therefore, gemifloxacin should not be used in lactating women unless the potential benefit to the mother outweighs the risk.

adiatric Use: Safety and effectiveness in children and adolescents less than 18 years of age have not been established.

Rash: In clinical studies, the overall rate of drug-related rash was 2.8%. The most common form of rash associated with gemifloxacin was described as culopapular and mild to moderate in severity. Rash usually appeared 8 to 10 days after start of therapy; 60% of the rashes resolved within 7 days, and 80% olved within 14 days.

Photosensitivity reactions have been reported very rarely in clinical trials with

Hepatic Effects: Liver enzyme elevations (increased ALT and/or AST) occurred at similar rates in patients receiving gemifloxacin 320 mg daily relative to comparator antimicrobial agents (ciprofloxacin, levofloxacin, clarithromycin, cefuroxime axetil, amoxicillin / clavulanate potassium, and ofloxacin).

There were no clinical symptoms associated with these liver enzyme elevations. The liver enzyme elevations resolved following cessation of therapy.

Drug Interactions

Concomitant administration of Factive and calcium carbonate, cimetidine, pmeprazole, or combined estrogen / progesterone oral contraceptives produced minor changes in the pharmacokinetics of gemifloxacin, which were considered to without clinical significance.

Concomitant administration of Factive with probenecid resulted in a 45% increase in systemic exposure to gemifloxacin.

Factive had no significant effect on the anticoagulant effect of warfarin in healthy bjects on stable warfarin therapy

Quinolones form chelates with alkaline earth and transition metals. The absorption of oral gemifloxacin is significantly reduced by the concomitant administration of an antacid containing aluminum and magnesium. Magnesium- and/or aluminumcontaining antacids, products containing ferrous sulfate (iron), multivitamin preparations containing zinc or other metal cations, or didanosine chewable/ buffered tablets or the pediatric powder for oral solution should not be taken within 3 hours before or 2 hours after Factive. Sucralfate should not be taken within 2 hours of Factive.

SIDE EFFECTS

Factive is generally well tolerated. The majority of adverse reactions experienced by patients in clinical trials were considered to be of mild to moderate severity. And may include:

- Body as a Whole: occasional fungal overgrowth could occur, such as oral thrush, and vaginitis
- Central Nervous System / Psychiatric: headache, occasional dizziness and Insomnia could occu
- GastroIntestinal: diarrhea, occasional abdominal pain, nausea, and vomiting could occur.
- Hepatic: occasional asymptomatic transient elevations in liver enzymes could
- · Skin: occasional rash, urticaria, and pruritus could occur. A diffuse maculopapular or erythematous skin rash was reported in some patients taking Factive in clinical trials. The rash mainly occurred after one week, was generally mild to moderate and appeared to be a reversible type IV hypersensitivity reaction. It is recommended that treatment with Factive should be discontinued if a patient experiences rash, unless the opinion of the physician dictates otherwise
- · Other: isolated cases of the following adverse events were observed: elevated bilirubin, tendonitis, thrombocytopenia, and photosensitivity reaction.

OVERDOSE

Any sign or symptom of overdosage should be treated symptomatically. No specific antidote is known. In the event of acute oral overdosage, the stomach should be emptied by inducing vomiting or by gastric lavage; the patient should be carefully observed and treated symptomatically with appropriate hydration maintained. Toxic signs after administration of a single high oral dose (400 mg/kg) of gemillioxacin to rodents included ataxia, lethargy, piloerection, tremor, and clonic convulsions.

STORAGE

Store at tightly closed container at room temperature, below 25°C.

PRESENTATION

FACTIVE: Gemifloxacin mesylate 426.39 mg equivalent to 320 mg of gemifloxacin.

THIS IS A MEDICAMENT A medicament is a product to instructions is dangerou
 Follow the doctor's prescri at of use and the instructions of the

its and risks.

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