

DESCRIPTION

BACTALL is the trade name of Ciprofloxacin, a systemic fluoroquinolone antibacterial agent.

Each Coated BACTALL 250, 500, and 750 Tablet contains Ciprofloxacin 250, 500, and 750 mg, respectively, as Ciprofloxacin Hydrochloride.

Excipients: Microcrystalline cellulose, sodium starch glycollate type A, colloidal anhydrous silica, hydroxypropyl cellulose, magnesium stearate, opadry OY-21033.

Ciprofloxacin Hydrochloride is: 1-Cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic

acid, monohydrochloride, monohyd CLINICAL PHARMACOLOGY

CLINICAC PHARMACOLOGY

BACTALL (Ciprifoxacin) is a broad-spectrum anti-infective bactericidal fluoroquinolone active against a wide range of aerobic gram-positive and gram-negative organisms. Ciprofloxacin dast intracellularly by inhibiting toposimerase II (ONA gyrase) and/ori topoisomerase IV Topoisomerases are essential bacterial onzymes and critical calsysts in the duplication, transcription, and repair of bacterial DNA. Ciprofloxacin is active in vitro against inost Enterobacteriaceet, including Citrobacter diversus, C. feurufil, and C. koser, Enterobacteriaceet acregorates and E. discase, Escherichia cott. (Ribesiella oxytica, K. ozcienez, and K. pneumoniae; Morganella morgani; Protes mirabilis and P. vulgaris; Providencia acidinaciens, P. retgeris, and P. studritis Salmoratella entertidia and S. byth. Shigella boydif, S. dysenteriad; Providencia alcalifaciens, P. rettgert, and P. stuartii, Salmonella entertidis and S. typhi; Shigella boydii, S. dysenteriae, S. flexneri, and S. sonnei; Whoir coholerae, V. parahaemolyticus, and V. vuinificus; and Versinifica entercoolitics. Ciprofloxacin has good in vitro activity against penicillin-resistant strains of Neisseria gonorrhoeae, beta-lactamase-producing strains of Haemophilius influenzea and Moraxella (Parahamella) catarnhalis, and some gram-negative bacilli that are resistant to other antimicrobial agents. Ciprofloxacin is the most active fluoroquindone against Pseudomonas aeruginosa. Ciprofloxacin has also good in vitro activity against Staphylococcus saprophylicus, S. epidermidis, and S. aureus, including methicillin-resistant (MRSA) strains; and against Chlamydia trachomatis, Mycoplasma hominis, Mycoplasma perumoniae, and tegjonella pneumophila. In addition. Ciprofloxacin has been found to be active against Bacillus anthracis both in vitro and by use of serumi levels as a surrogate marker.

Streptococci, including S, pneumoniae, S, pyogenes, and Enterococcus faecalis; and Mycobacterium tuberculosis are all moderately susceptible to Ciprolloxacin in vitro. Ciprofloxacin is rapidly and well absorbed from the gastrointestinal tract; bioavailability is approximatly 70-80%. It is

widely distributed to most body fluids and tissues including skin, fat, muscle, bone, and cartilage. It also penetrates the rospinal fluid.

- The treatment of bone and joint infections, lower respiratory tract infections, bacterial exacerbations of The treatment of under and joint impediations, lower legislatory fact infections, bacterial exacerbations of bronchitis, skin and soft tissue infections, bacterial prostatitis, and complicated and uncomplicated urinary tract infections, including cystitis, caused by susceptible micro organisms.

 The treatment of infectious diarrhea caused by enterotoxigenic strains of Campylobacter jejuni, E. coli, S. boydii, S. dysentieriae, S. flexmeti, of S. sonnel.
- The treatment of complicated intra-abdominal infections caused by Bacteroides fragilis, E. coli, K. pneumoniae,

- In the treatment of complicated intra-abdominal infections caused by Sadetroides fragilis, E. coli, K. pneumoniae, P. mirabilis, or P. aeruginosa, in combination with Metronidazole.

 The treatment of acute sinusitis caused by H. influenzae, M. catarrhals, or S. pneumoniae.

 The treatment of sphof fever caused by susceptible strains of Salmonella typhi.

 The treatment of endocervical and urethral gonormeal infections caused by Neisseria gonormhoeae.

 Treatment of inhabitional antitracts: ABCTALL is indicated to reduce the incidence or progression of the disease following exposure to aerosolized Bacillus antitracts

 BACTALL used in the treatment of chancroid caused by Haemophilus ducrey; and the treatment of chancroid caused by Haemophilus ducrey; and the t
- asymptomatic carriers of Neisseria meningitidis for the elimination of meningococci from the nasopharynx,
- asymptomatic carriers of relessers meningitions for the elimination or meningococci from the hasopharpix.

 BACTALL is also used in patients with cystic fibrosis for the treatment of pulmonary exacerbations caused by susceptible P, aeruginosa, alone or in combination with other antibacterial agents. Note: Not all species or strains of a particular microorganism may be susceptible to BACTALL.

DOSAGE

Bone and joint infections

Mild or moderate: 500 mg every 12 hours for at least 4-6 weeks and in severe or complicated: 750 mg every 12 hours for at least 4-6 weeks.

Skin and soft tissue infections

Mild or moderate: 500 mg every 12 hours for 7-14 days and in severe or complicated: 750 mg every 12 hours for 7-

- Mild or moderate chronic Prostatitis: 500 mg every 12 hours for 28 days.
 Urinary tract infections:

o Urinary tract Infections:
Acute uncomplicated: 100mg every 12 hours for 3 days and in mild or moderate: 250 mg every 12 hours for 7-14 days and in severe or complicated: 500 mg every 12 hours for 7-14 days;
Mild to severe infectious diarheas: 500 mg every 12 hours for 5 to 7 days,
Intra-abdominal infections: 500 mg every 12 hours for 5 to 7 days,
Intra-abdominal infections: 500 mg every 12 hours for 7-14 days, in combination with oral Metronidazole.

- Lower respiratory tract infections Mild to moderate: 500 mg every 12 hours for 7-14 days and in severe or complicated: 750 mg every 12 hours for 7-
- Sinusitis, mild or moderate or typhoid fever: 500 mg every 12 hours for 10 days.
- Endocervical and urethral gonorrhea: 250 mg as a single dose.
 Meningococcal carriers: 750 mg as a single dose.
 Treatment of inhalational anthrax: 500 mg every 12 hours for 60 days.

- Usual pediatric dose

 Pulmonary exacerbations of cystic fibrosis:

 Children 14 to 28 kg: 20 to 28 mg/kg every 12 hours, up to 2 grams per day.
- Children 28 to 42 kg: 15 to 20 mg/kg every 12 hours, up to 2 grams per day.
 Treatment of inhalational anthrax: 15 mg/kg per dose, not to exceed 500 mg per dose, every 12 hours for 60
- days.

Notes

- Notes

 BACTALL should be taken with a full glass of water, with meals or on an empty stomach.

 Adults with creatinine clearance (GrCl) > 50 mil/min may receive usual adult dose, If CrCl is 30-50 mil/min, dosage is 250 to 500 mg every 12 hours. If CrCl is 3-29 mil/min, dosage is 250 to 500 mg every 14 hours. In hemodialysis or pertional dialysis patients, dosage is 250-500 mg every 24 hours after dialysis. Patients with severe infection and severe renal function impairment may receive a unit dose of 750 mg at the intervals noted above; however, these patients should be monitored carefully.

 Use of flucrorquinolones in general is not recommended in children up to 18 years of age since they cause

- arthropathy in immature animals. However, Ciprofloxacin has been given to pediatric patients when alternative
- arthropathy in immature animals. However, Upirunxeuri rise useri given to pecuatus patients wire account and therapy could not be used.

 Based on pharmacokinetic studies, dosing for patients with cystic fibrosis should be higher and at more frequent intervals than for patients without cystic fibrosis. Dosing for cystic fibrosis should be decreased as

ADVERSE EFFECTS

Ciprofloxacin generally is well tolerated, and adverse effects of the drug are similar to those reported with other quindone anti-infective agents.

— More frequent effects. Nausea.

- Less frequent effects: Diarrhea, vomiting, abdominal pain/discomfort, headache, restlessness, and rash.
 Crystalluria is very unlikely to occur with Ciprofloxacin, unless urine becomes alkalinized.
- Selzures have rarely bliken propriet in patients with previous selzure history, alcoholics, or patients taking theophylline concurrently with Ciprofloxacin.
 Achilles tenditis and telayon rupture have been reported in patients receiving fluoroquinolones. Ciprofloxacin
- should be discontinued at the first sign of tendon pain or inflammation, and patients should refrain from exercise and inform their physicians.

USE IN PREGNANCY Ciprofloxacin crosses the placenta. Adequate and well controlled studies in humans have not been done. However, because most fluoroquinolones caused arthropathy in immature animals, Ciprofloxacin should not be used in pregnant women. FDA Pregnancy Category C.

USE IN LACTATION

Ciprofloxacin is distributed into human breast milk. Fluoroquinolones have been shown to cause permanent lesions of the cartilage of weight-bearing joints, as well as other signs of arthropathy in immature animals. Therefore, breast-feeding is not recommended if an alternative antibiotic cannot be prescribed and Ciprofloxacin must be INTERFERENCE WITH CLINICAL AND LABORATORY TESTS

Serum values of alanine aminotransferase, alkaline phosphatase, amylase, aspartate aminotransferase and lactate dehydrogenase may be increased with Ciprofloxacin therapy. DRUG INTERACTIONS

Concurrent use of Ciprofloxacin with a theophylline derivative may result in higher and prolonged serum theophylline concentrations and may increase the risk of theophylline-related adverse effects. Serum theophylline concentrations should be monitored and dosage adjustments may be required.

- Ciprofloxacin absorption may be reduced by antacids, ferrous sulfate, zinc, or sucraffate resulting in lower serum and urine concentrations. Ciprofloxacin should be taken at least 2 hours before or 6 hours after any of these
- Didanosine also reduces Ciprofloxacin absorption and should not be administered concurrently
- Didanosine also reduces Ciprofloxacin absorption and should not be administered concurrently, or Ciprofloxacin has resulted in a 34 to 80% decrease in plasma concentration of phenytoin. Phenytoin should be monitored when Ciprofloxacin is initiated or discontinued.
 Ciprofloxacin reduces the hepatic metabolism and clearance of cafferine, thus increasing its half-life and the risk of caffeine-related central nervous system (CNS) stimulation.
 Ciprofloxacin has been reported to increase the anticoagulant effect of warfarin, thus increasing the chance of bleeding. Prothrombin time should be carefully monitored in patients on concurrent treatment.
 Some quinolones, including Oprofloxacin, have been associated with transient elevations in serum creatinine and serum cyclosporine concentrations in patients receiving cyclosporine concomitantly.
 Ciprofloxacin should not be taken concurrently with dairy products or with fortified drinks alone (e.g., milk, vyoghurt, calcium fortified orange juice) because absorption of ciprofloxacin may be reduced.
 CONTRAINDICATIONS

CONTRAINDICATIONS

Ciprofloxacin is contraindicated in patients with a history of hypersensitivity to the drug or to other quinolones. Ciprofloxacin should not be used in pregnant or lactating women (see Use In Pregnancy/Lactation).

WARNINGS

- RENAMINGS

 Risk-benefit ratio should be considered when the following medical problems exist:

 CNS disorders, including cerebral arteriosclerosis or epilepsy; because like other fluoroquinolones, Ciprofloxacin may cause CNS stimulation that potentially leads to CNS adverse effects.

 Ciprofloxacin is primarily excreted by kidneys, Patients with impaired renal function require a reduced dose of Ciprofloxacin (see Dosage).
- **OVERDOSE**

OVERVOISE Unititled Information is available on the acute toxicity of Ciprofloxacin in humans. Since there is no specific antidote, treatment should be symptomatic and supportive, possibly utilizing stomach emptying by induction of emesis or agastric lavage, maintenance of adequate hydration and careful observation of the patient. In patients with serious toxic reactions, hemodialysis or peritoneal dialysis may enhance Ciprofloxacin elimination

- Like other fluoroquinolones, Ciprofloxacin can cause serious hypersensitivity reactions. Patients should discontinue the drug and contact their physician at the first sign of rash or hypersensitivity, ciprofloxacin may cause discreases or lightheadedness. Caudion should be exercised while operating a motor vehicle or machinery.
- Patients receiving Ciprofloxacin should be advised to avoid excessive exposure to sunlight or artificial ultraviolet tinue therapy if phototoxicity occ

HOW SUPPLIED

- Boxes of 10 blistered tablets of BACTALL 250.
 Boxes of 10 blistered tablets of BACTALL 500.
 Boxes of 10 blistered tablets of BACTALL 750.
 Hospital packs of different presentations.
- Store at a tmeperture between 15 and 30 °C.

 Do not use after the expiry date shown on the package.

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THIS IS A MEDICAMENT



- □ A medicament is a product which affects your health, and its consumption contrary to instructions is dangerous for you.
- □ Follow strictly the doctor's prescription, the method of use and the instructions of the pharmacist who dispensed the medicament.
- The doctor and the pharmacist are experts in medicine.
- Do not by yourself interrupt the period of treatment prescribed for you.
- Do not repeat the same prescription without consulting your doctor.
- Keep medicaments out of the reach of children.

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COUNCIL OF ARAB HEALTH MINISTERS UNION OF ARAB PHARMACISTS

Prescribing Information Available Upon Request



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