

HOSPITAL EPIDEMIOLOGY

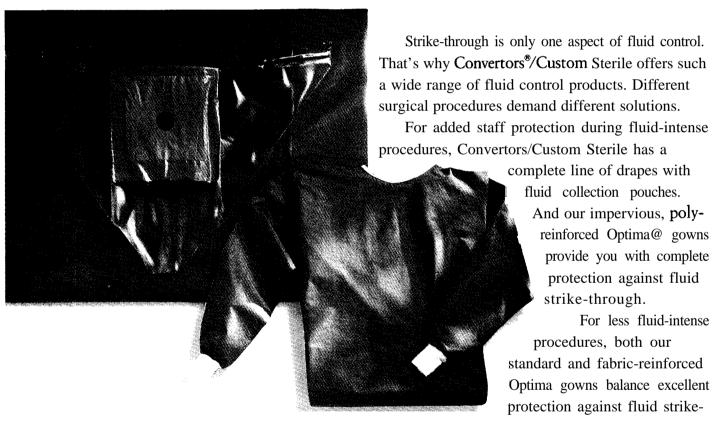
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Special Update:

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INFECTION CONTROL

AND HOSPITAL EPIDEMIOLOGY

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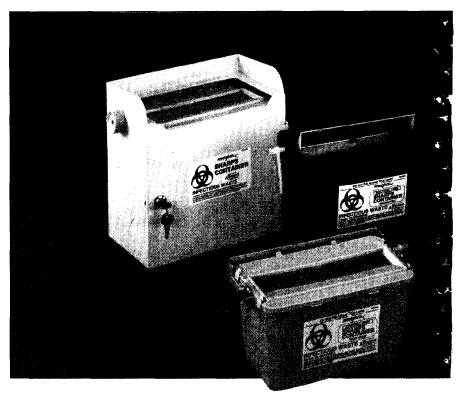
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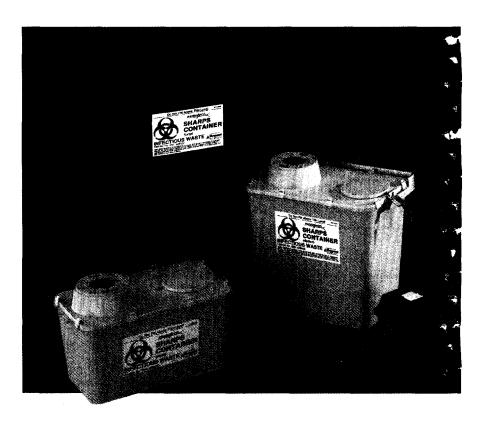
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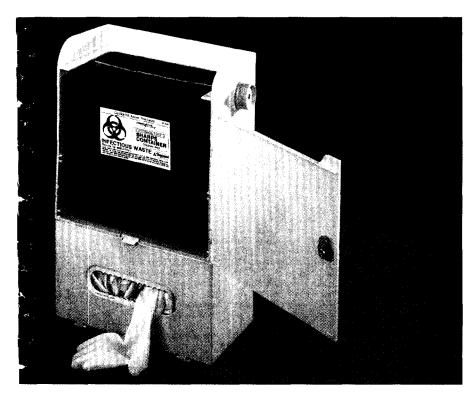
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BRIEF SUMMARY

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 $\begin{tabular}{ll} \textbf{INDICATIONS AND USAGE} \\ \textbf{Cipro}^{\textbf{B}} \textbf{is indicated for the treatment of infections caused by susceptible strains of the designated microorganisms in the designated microorganism of the designation of the designated microorganism of the designation of the desig$

Lower Respiratory Infections caused by Escherichia coli, Klebsiella pneumoniae, Enterobacter cloacae, Proteus mirabilis, Pseudomonas aeruginosa, Haemophilus influenzae, Haemophilus parainfluenzae, and Streptococcus

preumoniae.

Skin and Skin Structure Infections caused by Escherichia coli, Klebsiella pneumoniae, Enterobacter cloacae.
Proteus mirabilis, Proteus vulgaris, Providencia Stuartii, Morganella morganii, Citrobacter Ireundii. Pseudomonas
aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis, and Streptococcus pryogenes.
Bone and Joint Infections caused by Enterobacter cloacae. Serratia marcescens, and Pseudomonas aeruginosa.
Urinary Tract Infections caused by Escherichia coli, Klebsiella pneumoniae, Enterobacter cloacae. Serratia marcescens, Proteus mirabilis, Providencia retitgeri, Morganella morganii, Citrobacter diversus, Citrobacter freundii, Pseudomonas aeruginosa, Staphylococcus epidermidis, and Streptococcus faccalis
Infectious Diarrhea caused by Escherichia coli (enterotoxigenic strains). Campylobacter jejuni, Shigella flexneri, *
and Shigella sonnei* when ambacterial therapy is indicated
*Efficacy for this organism in this organ system was studied in fewer than 10 infections
CONTRAINDICATIONS

A history of hypersensitivity to ciprofloxacin is a contraindication to its use A history of hypersensitivity to other quinolones may also contraindicate the use of trofloxacin.

WARNINGS

CIPROFLOXACIN SHOULD NOT BE USED IN CHILDREN ADOLESCENTS. OR PREGNANT WOMEN The oral administration of ciprofloxacin caused lameness in immature dogs Histopathological examination of the weight-bearing joints of these dogs revealed permanent lesions of the cartilage Related drugs such as natidizic acid, cinoxacin, and on/floxacin also produced erosions of cartilage of weight-bearing joints and other signs of arthropathy immature animals of various species (SEE ANIMAL PHARMACOLOGY SECTION IN FULL PRESCRIBING INFORMATION)
PRECAUTIONS

Concret. As with other quirelenges ciprofloxacing may cause sentral pergrups system (CNS) stimulation, which may

General: As with other quinolones, ciprofloxacin may cause central nervous system (CNS) stimulation, which may lead to tremor, restlessness, lightheadedness, confusion, and rarely to hallucinations or convulsive seizures Therefore, ciprofloxacin should be used with caution in patients with known or suspected CNS disorders, such as sever cerebral arteriosclerosis or epilepsy, or other factors which predispose to seizures (SEE ADVERSE REACTIONS). Anaphylactic reactions following the first dose have been reported in patients receiving therapy with quinolones. Some reactions were accompanied by cardiovascular collapse, loss of consciousness, tingling, pharyngeal or facial edema, dyspinea, urticaria, and tiching Only a few patients had a history of hypersensitivity reaction Anaphylactic reactions may require epinephrine and other emergency measures Ciprofloxacin should be discontinued at the first son of honer-ensitivity or alterny.

reactions may require expire prime and other energency measures operations around a discontinuous sign of hypersensitivity or allergy. Severe hypersensitivity reactions characterized by rash fever, eosinophika, jaundice, and hepatic necrosis with fatal outcome have been reported rarely (less than one per million prescriptions) in patients receiving ciprofloxacin along with other drugs. The possibility that these reactions were related to ciprofloxacin cannot be excluded Ciprofloxacin should be discontinued at the first appearance of a skin rash or any sign of other hypersensitivity

Ciprofloxacin should be discontinued at the first appearance of a skin rash of any sign of other hypersensitivity reaction.

Crystals of ciprofloxacin have been observed rarely in the unine of human subjects but more frequently in the unine of laboratory animals (SEE ANIMAL PHARMACOLOGY SECTION INFULL PRESCRIBING INFORMATION) Crystaluria related to ciprofloxacin has been reported only rarely in man, because human unine is usually acide Patients receiving ciprofloxacinishould be well hydrated, and alkalinity of the urine should be avoided. The recommended daily dose should not be exceeded.

Alteration of the dosage regimen is necessary for patients with impairment of renal function (SEE DOSAGE AND ADMINISTRATION).

ANMINISTRATION

As with any potent drug, periodic assessment of organ system functions, including renal, hepatic, and hematopoietic function, is advisable during prolonged therapy. **Drug Interactions:** As with other quinofones, concurrent administration of ciprofloxacin with theophyllinemay lead to
elevated plasma concentrations of theophylline and prolongation of its elimination half-life. This may result in
increased risk of theophylline-related adverse reactions if concomitant use cannot be avoided, plasma levels of
theophylline should be monitored and dosage adjustments made as appropriate.

Quinolones, including opprionazein, have also been shown to interfere with the metabolism of caffeine This may
lead to reduced clearance of caffeine and a prolongation of its plasma half-life.

Antande container magnetism burdende or half-life burdenders in white the prescription of circulory.

Antacids containing magnesium hydroxide or aluminium hydroxide may interfere with the absorption of ciproflox-acin resulting in serum and urine levels lower than desired; concurrent administration of these agents with ciproflox-acin should be avoided.

Concomitant administration of the nonsteroidal anti-inflammatory drug fenbufen with a quinolone has been

Concomitant administration of the nonsteroidal anti-inflammatory drug fenbufen with a quinolone has been reported to increase the risk of CNS stimulation and convulsive seizures. Probenecid interferes with the renal tubular secretion of ciprofloxacin and produces an increase in the level of ciprofloxacin in the serum This should be considered if patients are receiving both drugs concomitantly. As with other broad-spectrum antibiotics, prolonged use of ciprofloxacin may result in overgrowth of nonsusceptible organisms. Repeated evaluation of the patient's condition and microbial susceptibility testing is essential if superinfection occurs during therapy, appropriate measures should be taken. Information for Patients: Patients should be advised that ciprofloxacin may be taken with or without meals. The preferred time of dosings two hours after armeal. Patients should also be advised to drink fluids liberally and not take antacids containing magnesium or aluminum. Patients should be advised that ciprofloxacin may be associated with hopercensitivity reachings, even following a simple does and to discontinuing the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at the first serior of a ciking path or the drug at th hypersensitivity reactions, even following a single dose, and to discontinue the drug at the first sign of a skin rash or other allergic reaction

Ciprofloxacin may cause dizziness or lightheadedness; therefore patients should know how they react to this drug before they operate an automobile or machinery or engage in activities requiring mental alertness or coordination. Patients should be advised that ciprofloxacin may increase the effects of theophylline and caffeine. Carcinogenesis, Mutagenesis, Impairment of Fartility; Eight in vitro mutagenicity tests have been conducted with ciprofloxacin and the test results are listed below. Salmonella/Microsome Test (Negative). E. coli DNA Repair Assay (Negative). Mouse Lymphoma Cell Forward Mutation Assay (Positive). Chinese Hamster Typ. Cell HofPRT Test (Negative). Syrian Hamster Embryo Cell Transformation Assay (Negative). Saccharomyces cerevisiae Point Mutation Assay (Negative). Saccharomyces cerevisiae Mitotic Crossover and Gene Conversion Assay (Negative). Rat Hepatocyte DNA Repair Assay (Positive). Thus, two of the eight tests were positive, but the results of the following three in vivo test systems gave negative results. Ciprofloxacin may cause dizziness or lightheadedness; therefore patients should know how they react to this drug

Rat Hepatocyte DNA Repair Assay Micronucleus Test (Mice) Dominant Lethal Test (Mice)

Long-term carcinogenicity studies in rats and mice have been completed. After daily oral dosing for up to 2 years, there is no evidence that ciprofloxacin had any carcinogenic or tumorigenic effects in these species

Pregnancy—Pregnancy Category C: Reproduction studies have been performed in rats and mice at doses up to 6 times the usual daily human dose and have revealed no evidence of impaired fertility or harm to the fetus due to ciprofloxacin In rabbits, as with most antimicrobial agents, ciprofloxacin (30 and 100 mg/kg orally) produced gastrointestinal disturbances resulting in material weight loss and an increased incidence of abortion. No teratogenicity was observed at either dose After intravenous administration, at doses up to 20 mg/kg no material toxicity was produced, and no embryotoxicity or teratogenicity was observed. There are, however, no adequate and weight controlled studies in pregnant women SINEC CIPROFLOXACIN, LIKE OTHER DRUGS IN TIS CLASS. CAUSES ARTHROPATHY IN IMMATURE ANIMALS, IT SHOULD NOT BE USED IN PREGNANT WOMEN (SEE WARNINGS). Nursing Mothers: It is not known whether ciprofloxacin is excreted in human milk, however, it is known that ciprofloxacin is excreted in the milk of lactating rats and that other drugs of this class are excreted in human milk. Because of this and because of the potential for serious adverse reactions from ciprofloxacin in nursing infants a decision should be made to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

decision around with a decision and the first profit of the mother.

Pediatric Use: Patients under the age of 18 were not included in the clinical trials of ciprofloxacin because ciproflox acin as well as other quinolones causes arthropathy in immature animals Ciprofloxacin should not be used in children or adolescents (SEE WARNINGS)

ADVERSE REACTIONS

ADVENSE REACTIONS

Ciprofloxacin is generally well tolerated During clinical investigation, 2, 799 patients received 2,868 courses of the drug Adverse events that were considered likely to be drug related occurred in 7,3% of courses, possibly related in 9,2%, and remotely related in 3,0% Ciprofloxacin was discontinued because of an adverse event in 3,5% of courses, primarily involving the gastrointestinal system (1,5%), skin (0,6%), and central nervous system (0,4%). Those events typical of quinclones are italicized.

The most frequently reported events, drug related or not, were nausea (5,2%), diarrhea (2,3%), vomiting (2,0%), abdominal pain/discomfort (1,7%), headache (1,2%), restlessness (1,1%), and rash (1,1%). Additional events that occurred in less than 1% of ciprofloxacin courses are listed below.

discolar events that recontent mess than 19th original much as a related below and a constant of the Constant

manc reaction. Irritability termin, ataxia, convulsive securose, lethargy, drossiness, weathers, malucinaturis are revia, phobia, depersonalization, depression, paresthesia SKINHYPERENSTINITY (See above), puritius, urticara, photosensitivity, flushing, fever, chills, angioedema edema of the face. neck, lips, conjunctivae or hands, cutaneous candidiasis, hyperpigmentation erythema

nodosum
Allergic reactions ranging from urticana to anaphylactic reactions have been reported (SEE PRECAUTIONS)
SPECIAL SENSES: biurred vision, disturbed vision, (change in color perception overtrightness of lights),
decreased visual acuty, diplopia eye pa_t, tinnitus, hearing loss, bad taste
MUSCULOSKELETAL joint or back pain joint stiffness, actiniess, neck or chest pain, flare-up of gout
RENAL/UROGENITAL: interstitial nephritis nephritis, renal failure, polyuria, urinary retention, urethral bleeding,
vaginitis acidosis.
CARDIOVASCULAR palpitations, atrial flutter, ventricular ectopy, syncope, hypertension, angina pectoris,
myocardial infarction cardiopolimonary arrest, cerebral thrombosis

RESPIRATORY epistaxis, laryngeal or pulmonary edema, hiccough, hemoptysis, dyspnea, bronchospasm pulmonary embolism Most of the adverse events reported were described as only mild or moderate in severity, abated soon after the

Most of the adverse events reported were described as only mild or moderate in severity, abated soon after the drug was discontinued and required no treatment. In several instances, nausea, voimting, it remor restlessness, agitation or palpitations were judged by investigators to be related to elevated plasma levels of the ophylline possibly as a result of a drug interaction with ciprofloxacin. Other adverse events reported in the postimarketing phase include anaphylactoid reactions. Stevens Johnson syndrome exhibitative expensions and the procession of the properties of the proper

rse Laboratory Changes: Changes in laboratory parameters listed as adverse events without regard to drug

Hepatic—Elevations of ALT (SGPT) (1.9%) AST (SGOT) (1.7%) alkaline phosphatase (0.8%), LDH (0.4%),

Schulming and the seen reported Hematologic—eosinophilia (0.6%), leukopenia (0.4%), decreased blood platelets (0.1%), elevated blood platelets (0.1%), pancytopenia (0.1%)

platelets (0.1%), pancytopenia (0.1%). BUN (0.9%). Electrosed blood platelets (0.1%), elevated bloo

The recommended dosage for infectious diarrhea is 500 mg every 12 hours in patients with renal impairment, some modification of dosage is recommended (SEE DOSAGE AND ADMINISTRATION SECTION IN FULL PRESCRIBING INFORMATION)

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