Calendar of Events

February 9-10, 1990

The 8th Annual UC Davis Infectious Disease Conference, "Practical Review and Update of Infectious Disease," will be held at the Hilton Inn in Sacramento, California. The conference will provide a review and update of practical information for internists, family physicians, pharmacists and other healthcare professionals involved in the management of patients with infectious diseases. Some of the areas to be covered are: Lyme Disease, AIDS, recommendations for travelers, antibiotic pharmacokinetics and new lab techniques for identifying infections. Eleven hours of Category I AMA/CMA/AAFP and 11 hours of Pharmacist/Credit (applied for) will be available. The cost is \$165 for physicians and \$105 for all others. Sponsors are the Office of Continuing Medical Education, the Department of Internal Medicine and the Department of Family Practice. For further information contact Nina Musselman, Office of Continuing Medical Education, UC Davis School of Medicine, 2701 Stockton Blvd., Sacramento, CA 95817. Telephone (916) 453-5390.

February 23-24, 1990

The "Fourth Infectious Diseases Symposium" will be held in El Paso, Texas. Sponsored by the Providence Memorial Hospital, the symposium is a national conference devoted to the scientific and practical aspects of diagnosis, management and control of infectious diseases. Fees for this symposium are \$150 for physicians and \$75 for nurses, pharmacists, allied healthcare workers, residents, interns and students with current registration. For more information, contact Karen Greenup, Pro-

vidence Memorial Hospital, 2001 N. Oregon St., El Paso, TX 79902. Telephone (915) 542-6660.

March 6, 1990

The third annual "Infection Control Product Exhibition of New England" will be held at the Sheraton Sturbridge Conference Center, Sturbridge, Massachusetts. Sponsored by Infection Control Consultants of America and the Association for Practitioners in Infection Control-New England Chapter, the Exhibition features opportunities for healthcare professionals to compare infection control products, obtain literature and sample and discuss needs and concerns with sales representatives. Fees for this exhibition are \$5 for participants and \$350 for exhibitors. For more information, contact Infection Control Consultants of America, P.O. Box 5242, Turnpike Station, Shrewsbury, MA 01545. Telephone (508) 443-0176.

March 26-28, 1990

"Infection Control Update-1990" will be held at the Marriott Hotel, Salt Lake City, Utah. The conference is sponsored by the Rocky Mountain Infection Control Association. Topics will be of interest to infection control practitioners and hospital epidemiologists. For more information, contact Barbara Mooney, RN, BSN, CIC, Nurse Epidemiologist, University of Utah Hospital, Salt Lake City, UT 84132. Telephone (801) 581-2706.

March 26-April 9, 1990

An extension training program for beginning infection control and quality assurance practitioners will be held at the University of Iowa Hospitals and Clinics in Iowa City, Iowa. The program is sponsored by the University of Iowa Program of Epidemiology and Quality Assurance Support Service. For more information contact Jeanne Lyons, RN, BS, CIC, Nurse Epidemiologist, University of Iowa Hospitals and Clinics, C41 General Hospital, Iowa City, IA 52242. Telephone (319) 356-1606.

March 30, 1990

The 7th Annual Infectious Disease-Symposium will be held at the Santa Barbara Miramar Resort and Conference Center, Santa Barbara, California. The sponsor of the event is APIC Camino Real. Seven contact hours credit are available for nurses who attend. For further symposium information contact Patsy Favalora, RN, BS, CIC, Infection Control Coordinator, Cottage Hospital, P.O. Box 689, Santa Barbara, CA 93102. Telephone (805) 569-7204.

June 6-8, 1990

"Sailing Into the 90's," a conference sponsored by the Community and Hospital Infection Control Association of Canada, will **be** held in Kingston, Ontario, Canada at the Ambassador Motor Hotel. For information contact June Gorrell, Registration Chair, Trenton Memorial Hospital, Trenton, Ontario, Canada, K8V 5S6.

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY publishes Calendar of Events as a service to its readers as space permits. Notices of symposia, workshops, and other educational offerings should contain a mailing address and telephone number of a contact person and must be submitted at least three months before publication. Send typewritten notices to Managing Editor, IC & HE Editorial Offices, C41 GH, University of Iowa Hospitals and Climics, Iowa City, IA 52242.

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PARENTERAL POWER IN ORAL FORM: THE POWER TO ERADICATE.*



,7

Power that achieves 96% favorable results in lower respiratory infections. 1*†

Power that destroys pneumopathogens in vitro that are not covered by cefaclor, cephalexin, or ampicillin.2-4*

Power that demonstrates significant activity even against organisms resistant to other agents such as *H. influenzae* and the Enterobacteriaceae. 1.5-7*

Power that's well tolerated and is comparable in cost with cefacior and amoxicillin/clavulanate potassium.8

NOTES: Concurrent administration of ciprofloxacin with theophylline may lead to elevated plasma concentrations of theophylline and prolongation of its elimination half-life. This may result in increased risk of theophylline-related adverse ments made as appropriate.

Antacids containing magnesium hydroxide or aluminum hydroxide interfere with the absorption of ciprofloxacin, resulting in serum and urine levels lower than desired; concurrent administration of these agents with ciprofloxacin should be avoided. A history of hypersensitivity to ciprofloxacin is a contraindication to its use.

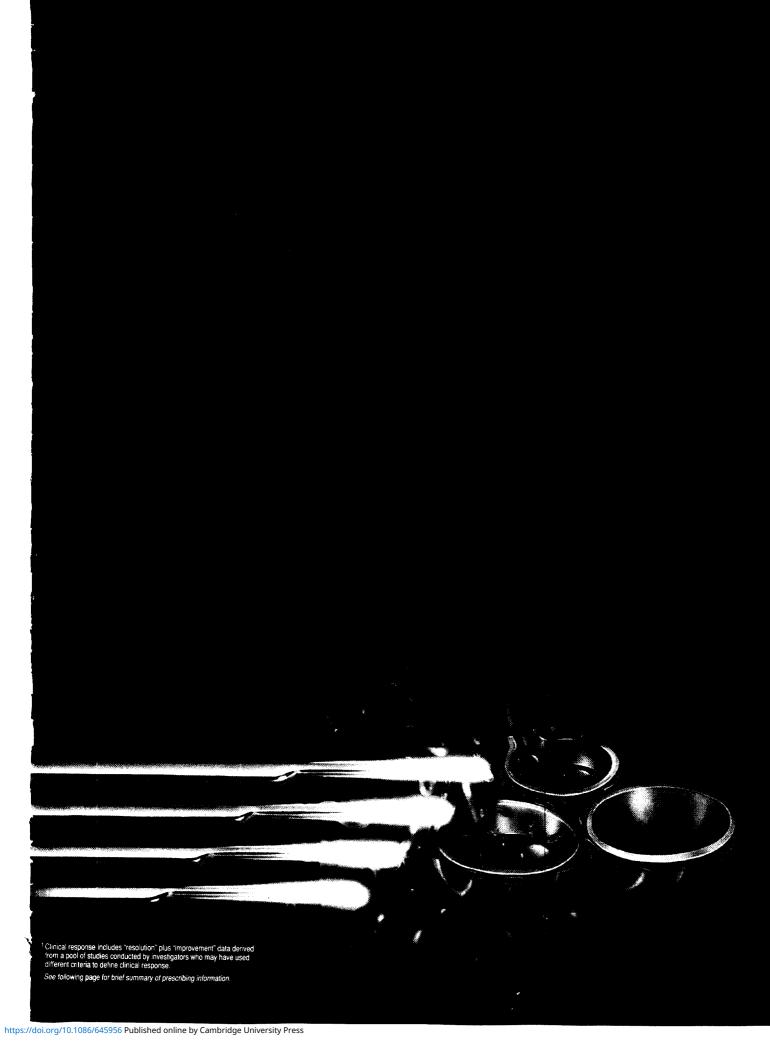
A history of hypersensitivity to other quinolones may also contraindicate the use of ciprofloxacin.

CIPRO' SHOULD NOT BE USED IN CHILDREN, ADOLESCENTS, OR PREGNANT WOMEN.

The eradicator.*



Achieves 96% favorable clinical response (resolution + improvement) of infections due to susceptible strains of indicated pathogens. See indicated organisms in prescribing information.





THE POWER TO ERADICATE* IN LOWER RESPIRATORY INFECTIONS.

CIPRO® TABLETS (ciprofloxacin HCI/Miles)

BRIEF SUMMARY CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE

Cipro® is indicated for the treatment of infections caused by susceptible strains of the designated microorganisms in

Lower Respiratory Infections caused by Eschericha 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. Proteis mirabilis. Proteis viligaris. Providencia stuartii. Morganella morganii. Citrobacter freundii. Pseudomonas aeruginosa, Staphylococcus aureus. Staphylococcus epidermidis, and Streptococcus pyogenes.

Bone and Joint Infections caused by Enchoacter cloacae. Serrata marcescens, and Pseudomonas aeruginosa.

Urinary Tract Infections caused by Escherichia coli. Klebsiella pneumoniae. Enterobacter cloacae. Serratia marcescens. Proteis mirabilis. Providencia retiger. Morganella morganii. Citrobacter diversus. Citrobacter freundii. Pseudomonas aeruginosa. Staphylococcus epidermidis. and Streptococcus faecalis.

Infectious Diarrhea caused by Escherichia coli (enterotoxigenic strains). Campylobacter jejuni. Shigella flexneri. and Singella sonner: wiena antibacterial therapi is indicated.

*Efficacy for this organism in this organ system was studied in lewer than 10 infections.

CONTRAINDICATIONS.

A history of hypersensitivity to ciprofloxaen is a contradication to its use. A history of hypersensitivity to other

A history of hypersensitivity to oprofloxacin is a contraindication to its use. A history of hypersensitivity to other quinolones may also contraind cate the use of ciprofloxacin.

WARNINGS

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

PRECAUTIONS

General: As with other quinolones, coordfloxacin may ausic central nervous system (CNS) stimulation, which may

PREGUITIONS

General: As with other quinolones, ciprofloxacin may cause central nervous system (CNS) stimulation, which may lead to ternor, restlessness, lightheadedness, confusion, and rarely to hallowinations or convulsive sezures. There fore, ciprofloxacin should be used with caution in patients with known or suspected CNS disorders, such as severe cerebral arteriosclerosis or epilepsy, or other factors which predispose to sezures (SEE ADVERSE REACTIONS). Anaphylactic reactions following the first dose have been reported in patients receiving therapy with quinolones. Some reactions were accompanied by cardiovascular collagise loss of consciousness, tingling, plan yingeal or face deema, dyspinea, urticaria, and fiching 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 sign of hypersensitivity or altergy.

Severe hypersensitivity reactions characterized by rash, fever, eosinophilia, jaundice, and hepatic necrosis with latal outcome have been reported rarely (less than one per million prescriptions) in patients receiving opinitiosacin 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 eaction.

Crystals of ciprofloxacin have been observed rarely in the urine of human subjects but more frequently in the urine of laboratory animals (SEE ANIMAL PHARMACOLOGY SECTION In FULL PRESCRIBING INFORMATION). Crystaliora related to ciprofloxacin should be well hydrated, and alkalinity of the urine should be avoided. The recommended daily does should not be exceeded.

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

As with any potent drug, periodic assessment of organ system functions, including renal, hepatic, and hematopoietic function, is advisable during profonced therapy. **Drug Interactions:** As with other quinolones, concurrent administration of ciprofloxacin with theophylline may lead to

elevated pasma concentrations of theophyline and prolongation of its elimination half-life. This may result in increased risk of theophyline-related adverse reactions. If concomitant use cannot be avoided, plasma levels of theophyline should be monitored and dosage adjustments made as appropriate. Quintolones, including optiotoxacin, have also been shown to interfere with the metabolism of cafferine. This may

theophyline should be monitored and dosage adjustments made as appropriate.

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

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

Concomitant administration of the nonsteroidal anti-inflammatory drug tenbulen with a quinolone has been reported to increase the risk of CNS stimulation and convulsive sezures.

Probenecid interferes with the renal lubular secretion of ciprofloxacin and produces an increase in the level of oppolloxacin in the serum. This should be considered if patients are receiving both drugs concomitantly. As with other broad-spectrum antibotics, prolonged use of oppolloxacin may result in overgrowth of nonsusceptible organisms. Repeated evaluation of the patient's condition and microbal susceptibility lesting is essential. If superinfection occurs during therapy, appropriate measures should be taken.

Information for Patients. Patients should be advised that opprofloxacin may be taken with or without meals. The preferred time of dosing is two hours after a mear. Patients should be advised that opprofloxacin may be associated with hypersensitivity reactions, even following a single dose, and to discontinue the drug at the first sign of a skin rash or other allergic reaction.

Patients should be advised that opprofloxacin may be associated with 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 dizzness or lightneadedness, hierefore patients should know how they react to this drug before they operate an automobile or machinery or engage in activities requiring mental alertness or coordinatio

Saccharomyces cerevisate Mitotic Crossover and Gene Conversion Assay (Negative)
Rat Hepatocyte DNA Repair Assay (Positive)
, two of the eight tests were positive, but the results of the following three in vivo test systems gave negative

Rat Hepatocyte DNA Repair Assay

Bat Hepatocyte DNA Repair Assay
Micronocleus 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
profloxacin. In rabbits, as with most antimicrobial agents, ciprofloxacin (30 and 100 mg/kg orally) produced
gastrointestinal disturbances resulting in maternal weight loss and an increased incidence of abortion. No terato-

genicity was observed at either dose. After intravenous administration, at doses up to 20 mg/kg, no maternal toxicity was produced, and no embryotoxicity or teratogenicity was observed. There are, however, no adequate and well-controlled studies in pregnant women. SINCE CIPROFLOXACIN, LIKE OTHER DRUGS IN ITS CLASS, CAUSEA ARTHROPATHY IN IMMATURE ANIMALS, IT SHOULD NOT BE USED IN PRECINANT WOMEN (SEE WARNINGS). Nursing Mothers: It is not known whether ciprofloxacin is excreted in human milk. however, it is known that aprofloxacin is excreted in the milk of lactating rats and that there drugs of this cass are excreted in human milk. Because of this and because of the potential for serious adverse reactions from ciprofloxacin in unising 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.

drug to the mother

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

in children or adolescents (SEE WARNINGS)

ADVERSE REACTIONS

Ciprolloxacin 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 0.9%. Ciprolloxacin 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 quinolones are italicized. The most frequentily reported events, drug related or not, were nausea (5.2%), diarrhea (2.3%), vomiting (2.0%), abidiomial pain-discomifort (1.7%), headache (1.2%), restlessness (1.1%), and rash (1.1%). Additional events that occurred in less than 1% of corrolloxacin courses are listed below. GASTROINTESTINAL: (See above), painful oral mucosa, oral candidiasis, dysphagia, intestinal perforation, pastronitestinal bleeding. CENTRAL NERVOUS SYSTEM. (See above), dizziness, lightheadedness, insomnia, nightmares, hallucinations, manic reaction, irritability, tremo, ataxia, convulsive seizures, tethargy, drowsiness, weakness, malaise, anoreau, photos, depersonativation, depression, paresthesis. SKIN:HYPERSENSITVITY. (See above), pruntus, urticaria, photosensitivity. Hushing, fever, chills, angioedena, edema of the face, neck. hips, conjunctivae or hands, cutaneous candidiasis, hyperpigmentation, erythema nodosum.

angocederna, edema of the face, neck. lips, conjunctivae or hands, cutaneous candidiasis, hyperpigmentation, erythema nodiosum.

Allergic reactions ranging from unlicaria to anaphylactic reactions have been reported (SEE PRECAUTIONS). SPECIAL SENSES. blurred vision, disturbed vision (change in color perception, overbrightness of lights), decreased visual acuty diplopia, eye pain, linnitus, hearing loss, bad taste.

MUSCULIOSKELETAL joint or back pain, joint stiffness, achiness, neck or chest pain, flare-up of gout REMAL UROGENITAL: interstitial nephritis, nephritis, renal failure, polyuria, urinary retention, urethral bleeding, vagnitus acidoss.

CARDIOVASCULAR: palpitations, alrival flutter, ventricular ectopy, syncope, hypertension, angina pectoris, invescribial infaction, cardiovalignments acidos.

CARDIOVASCUCAN: paphations, afrial futter, ventricular ectory, synctope, hypertension, angina pectoris, myocardai infarction, cardioquinmonary arrest, certifical thrombosis RESPIRATORY epistaxis, laryngeal or pulmonary edema, hiccough, hemoptysis, dyspnea, bronchospasm, pulmonary emboism.

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 freatment. In several instances, nausea, vomiting, fremor, restlessness, agitation, or palpitations were judged by investigators to be related to elevated plasma levels of theophylline possibly as a result of a drug interaction with conditionary.

oprotioxacin.

Ofther adverse events reported in the postmarketing phase include anaphylactoid reactions, Stevens-Johnson syndrome, extolative dermatitis, toxic epidermal necrolysis, hepatic necrosis, postural hypotension, possible exactebation of myasthenia gravis, conflusion, dysphasia, nystagmus, pseudomembranous collist, olivespesia, flatulence, and constipation. Also reported were agranulocytosis, elevation of serum triglycerides, serum cholesterol, blood glucose, serum potassium; prolongation of prothrombin time, albuminuma, candiduria, vaginal candidiasis, and renal calcilli (SEE PRECAUTIONS).

Adverse Laboratory Changes: Changes in laboratory parameters listed as adverse events without regard to drug retainoistim.

onship. Hepatic—Elevations of: ALT (SGPT) (1.9%), AST (SGOT) (1.7%), alkaline phosphatase (0.8%), LDH (0.4%), serum bilirubin (0.3%) Cholestatic jaundice has been reported.

Cholestatic jaundice has been reported.
Hematologic—Fosinophiia (0 6%), leukopenia (0 4%), decreased blood platelets (0 1%), elevated blood platelets (0 1%), pancytopenia (0 1%).
Renal—Elevations of Serum creatinine (1 1%) BUN (0 9%).
CRYSTALLURIA, CYLINDRURIA, AND HEMATURIA HAVE BEEN REPORTED.
Other changes occurring in less than 0.1% of courses were: Elevation of serum gammaglutamyl transferase, elevation of serum amylase, reduction in blood glucose, elevated unit acid, decrease in hemoglobin, anemia, bleeding diathesis; increase in blood monocytes, and leukocytosis.

NEERINGAGE

OVERDOSAGE

Information on overdosage in humans is not available. In the event of acute overdosage, the stomach should be emplied by inducing vomiting or by gastric lavage. The patient should be carefully observed and given supportive Irealment. Adequate hydration must be maintained. Only a small amount of ciprofloxacm (- 10%) is removed from

Incament. Adequate hydration must be maintained unity a small amount of cipronoxacin (- 10%) is removed from the body after hemodialysis or peritoneal dialysis.

DOSAGE AND ADMINISTRATION

The usual adult dosage for patients with urinary tract infections is 250 mg every 12 hours. For patients with complicated infections caused by organisms not highly susceptible, 500 mg may be administered every 12 hours. Lower respiratory tract infections, skin and skin structure infections, and bone and joint infections may be heated with 500 mg every 12 hours. For more severe or complicated infections, a dosage of 750 mg may be given every 12

hours
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 AD-MINISTRATION SECTION IN FULL PRESCRIBING INFORMATION).

HOW SUPPLIED

Cipro* (ciprofloxacin HCl-Miles) is available as tablets of 250 mg, 500 mg, and 750 mg in bottles of 50, and in UnitDose packages of 100 (SEE FULL PRESCRIBING INFORMATION FOR COMPLETE DESCRIPTION)

Dose packages of 100 (SEE FULL PRESCRIBING INFORMATION FOR COMPLETE DESCRIPTION).

Reterences: 1. Data on file. Miles Inc. Pharmaceutical Division 2. Physicians' Desk Reterence* 43rd ed. Oradell, NJ: Medical Economies Co. Inc. 1989-891, 1168, 1441, 2098-3. Wollschlager CM, et al. Controlled, comparative study of oprofloxacin virsus ampicitiin in treatment of bacterial respiratory tract infections. Am J. Med. 1987-82; suppl 4A), 164-168-4. Fest H., et al. Comparative study of oprofloxacin and detalexin in the treatment of patients with lower respiratory tract infections. In: Neu H.C. Weuta H., eds. 1st International Oprofloxacin Workshop Asterdam Excerptal Medica. 1986-265-267-5. Parry MF. Quintolone resistance—trends in U.S. susceptibility data. In Cyprofloxacin. Major Advances In: Intravenous and Oral Quintolone Therapy. Scientific Program and Asta Inc. Spales. Florida. 1989-21. 6. Sanders CC. et al. Overview of preclinical studies with oprofloxacin. Am J. Med. 82(suppl.4A), 2-11-7. Machka K, et al. In vitro activity of new antibolics against Haemophilus influenzae. Eur J. Clin Microbiol Infect Dis. 1988.7: 812-814. 8. Redbook Update. 1989-8(5), 4,6.7.

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For further information, contact the Miles Information Service: 1-800-642-4776. In VA, call collect: 703-391-7888

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