

C hoose CARDURA: first-line therapy for a new generation of hypertensives.

Choose CARDURA for around-the-clock blood pressure control that doesn't jeopardize blood lipids or blood sugar.²⁻⁴

CARDURA is well tolerated. In placebo-controlled studies, only three common side effects were reported significantly more often than with placebo: dizziness, somnolence, and fatigue. These were generally mild and transient. Only 2% of patients discontinued therapy due to adverse effects—the same as with placebo. Syncope has been reported, but rarely (<1%).





References: 1. The fifth report of the Joint National Committee (JNC) on the Detection, Evaluation, and Treatment of High Blood Pressure (JNC V). Presented to the National High Blood Pressure Education Program Coordinating Committee; June 25, 1992.

2. Pickering TG, Hypertension and Lipid Trial Study Group. The use of 24-hour ambulatory monitoring in the assessment of antihypertensive therapy. Presented at the American Academy of Family Physicians 4374 Annual Assembly; September 24-29, 1991; Washington, D.C. 3. The Treatment of Mild Hypertension Research Group. The Treatment of Mild Hypertension Study; a randomized, placebo-controlled trial of a nutritional-hygienic regimen along with various drug monotherapies. Arch Intern Med. 1991;151:143-1423. 4. Lethonen A, the Finnish Multicather Study Group. Lowered levels of serum insulin, glucose, and cholesterol in hypertensive patients during treatment with doxazosin. Curr Ther Res. 1990;47:278-284.

CARDURA® (dexazosin mesylate) Tablets Brief Summary of Prescribing Information INDICATIONS AND USAGE

CARDURA (dovazosin mesylate) is indicated for the treatment of hypertension. CARDURA may be used alone or in combination with diuretics or beta-adrenergic blocking agents. There is limited experience with CARDURA in combination with angiotensin converting enzyme inhibitors or calcium channel blockers. CONTRAINDICATIONS

CARDURA is contraindicated in patients with a known sensitivity to guinazolines (e.g. prazosin, terazosin). WARNINGS

Syncope and "First-dose" Effect:

Oxazosin, like other alpha-adrenergic blocking agents, can cause marked hypotension, especially in the upright position, with syncope and other postural symptoms such as dizziness. Marked orthostatic effects are most postural symptoms ucun as dizziness. Marked orthostatic effects are most common with the first dose but can also occur when there is a dosage increase, or if therapy is interrupted for more than a few days. To decrease the likelihood of excessive hypotension and syncope, it is essential that treatment be initiated with the 1 mg dose. The 2, 4, and 8 mg tablets are not for initial therapy. Dosage should then be adjusted slowly (see DOSAGE AND ADMINISTRATION section) with increases in dose every

(see DOSAGE AND ADMINISTRATION section) with increases in dose every how weeks. Additional antihypertensive agents should be added with caution. Patients being litrated with doxazosin should be cautioned to avoid situations where injury could result should syncepo eccur. In an early investigational study of the safety and tolerance of increasing daily doses of doxazosin in normotensives beginning at 1 mg/day, only 2 of 6 subjects could loterate more than 2 mg/day without experiencing symptomatic postural hypotension. In another study of 24 healthy normotensive male subjects receiving initial doses of 2 mg/day of doxazosin, seven (29%) of the subjects experienced symptomatic postural hypotension between 0.5 and 6 hours after the first dose necessitating termination of the study. In this study 2 of the normotensive subjects experienced synchons. Subsequent trisis in hypertensive notensive subjects experienced syncope. Subsequent trials in hypertensive ents always began doxazosin dosing at 1 mg/day resulting in a 4% incidence

of postural side effects at 1 mg/day with no cases of syncope. In multiple dose clinical trials involving over 1500 patients with dose titration every one to two weeks, syncope was reported in 0.7% of patients. None of these events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at

If syncope occurs, the patient should be placed in a recumbent position and treated supportively as necessary.
PRECAUTIONS

While syncope is the most severe orthostatic effect of CARDURA, other symptoms of lowered blood pressure, such as dizziness, lightheadedness, or vertigo, can occur, especially at initiation of therapy or at the time of dose increases. These ere common in clinical trials, occurring in up to 23% of all patients treated and ausing discontinuation of therapy in about 2%. In placebo controlled titration trials orthostatic effects were minimized by

beginning therapy at 1 mg per day and titrating every two weeks to 2, 4, or 8 mg per day. There was an increased frequency of orthostatic effects in patients given 8 mg or more, 10%, compared to 5% at 1-4 mg and 3% in the placebo group.

Patients in occupations in which orthostatic hypote

Ashould be treated with particular caution.

If hypotension occurs, the patient should be placed in the supine position and, if this measure is inadequate, volume expansion with intravenous fluids or vasopressor therapy may be used. A transient hypotensive response is not a contraindication to further doses of CARDURA.

2. Impaired liver function:

CARDURA should be administered with caution to patients with evidence of impaired hepatic function or to patients receiving drugs known to influence he metabolism (see CLINICAL PHARMACOLOGY). There is no controlled clinical experience with CARDURA in patients with these conditions

Information for Patients:

 Leukopenia/Neutropenia:
 Analysis of hematologic data from patients receiving CARDURA in controlled al trials showed that the mean WBC (N=474) and mean neutrophil counts clinical trials showed that the mean WBC (N=474) and mean neutrophil counts (N=479) were decreased by 2.4% and 1.0% respectively, compared to placebo, a phenomenon seen with other alpha blocking drugs. A search through a data base of 2.400 patients revealed 4 in which drug-related neutropenia could not be ruled out. Two had a single low value on the last day of treatment. Two had stable, non-progressive neutrophil counts in the 1000/mm² range over periods of 20 and 40 weeks. In cases where follow-up was available the WBCs and neutrophil counts returned to normal after discontinuation of CARDURA. No patients became symptomatic as a result of the low WBC or neutrophil counts.

Patients should be made aware of the possibility of syncopal and orthostatio symptoms, especially at the initiation of therapy, and urged to avoid driving or hazardous tasks for 24 hours after the first dose, after a dosage increase, and after interruption of therapy when treatment is resumed. They should be cautioned to avoid situations where injury could result should syncope occur during initiation of doxazosin therapy. They should also be advised of the need to sit or lie down when

oblacions in the lays. They sinclour also be advised to inthined to star the down when symptoms of lowered blood pressure occur, although these symptoms are not always orthostatic, and to be careful when rising from a sitting or fying position. If discinses, lightheadedness, or palipitations are bothersome they should be reported to the physician, so that dose adjustment can be considered. Patients should also be told that drowelness or someonees can occur with doxazosin, requiring caution in people who must drive or operate heavy machinery.

In people who must other or operate nasy maximizer.

Most (98%) of plasma doxazosin is protein bound. In vitro data in human plasma indicate that CARDURA has no effect on protein binding of digoxin, warfarin, phenytoin or indomethatin. There is no information on the effect of other highly plasma protein bound drugs on doxazosin binding. CARDURA has been administered without any evidence of an adverse drug interaction to patients receiving thiazide diuretics, beta blocking agents, and nonsteroidal antinflammatory drugs. Drug/Laboratory test interactions:

Cardiac Toxicity in Animals

An increased incidence of myocardial necrosis or fibrosis was displayed by Sprague-Dawley rats after 6 months of dietary administration at concentrations calculated to provide 80 mg doxazosin/kg/day and after 12 months of dietary administration at concentrations calculated to provide 40 mg doxazosin/kg/day (150 times the maximum recommended human dose assuming a patient weight of 60 kg). Myocardial fibrosis was observed in both rats and mice treated in the same manner with 40 mg doxazosin/kg/day for 18 months. No cardiotoxicity was observed at lower doses (up to 10 or 20 mg/kg/day, depending on the study) in either species. These lesions were not observed after 12 months of oral dosing in dogs and Wistar rats at maximum doses of 20 mg/kg/day and 100 mg/kg/day, respectively. There is no evidence that similar lesions occur in humans.

respectively. There is no evidence that similar resions occur in numans. Carcinogenesis, Mutagenesis and Impairment of Fertility: Chronic dietary administration (up to 24 months) of doxazosin mesylate at maximum recommended human dose of 16 mg/60 kg) revealed no evidence of carcinogenicity in rats. There was also no evidence of carcinogenicity in a similarly conducted study (up to 18 months of dietary administration) in mice. The mouse study, however, was compromised by the failure to use a maximally tolerated dose of doxazosin.

Mutagenicity studies revealed no drug- or metabolite-related effects at either

chromosomal or subchromosomal levels.
Studies in rats showed reduced fertility in males treated with doxazosin at oral doses of 20 (but not 5 or 10) mg/kg/day, about 75 times the maximum recommended human dose. This effect was reversible within two weeks of drug

Pregnancy

Transpenies Effects, Pregnancy Category B. Studies in rabbits and rats at daily oral doses of up to 40 and 20 mg/kg, respectively (150 and 75 times the maximum recommended daily dose of 16 mg, assuming a patient weight of 60 kg), have revealed no evidence of harm to the fetus. The rabbit study, however, was compromised by the failure to use a maximally tolerated dose of doxazosin. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response.

CARDURA should be used during pregnancy only if clearly needed.

Radioactivity was found to cross the placenta following oral administration of labelled doxazosin to pregnant rats.

Nonteratogenic Effects. In peri-postnatal studies in rats, postnatal development at maternal doses of 40 or 50 mg/kg/day of doxazosin was delayed as evidenced by slower body weight gain and a slightly later appearance of anatomical features and reflexes

Nursing Mothers

Studies in lactating rats given a single oral dose of 1 mg/kg of [2-1*C]-doxazosin indicate that doxazosin accumulates in rat breast milk with a maxin concentration about 20 times greater than the maternal plasma concentration. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when CARDURA is inistered to a nursing mother.

ness in children have not been established.

ADVERSE REACTIONS

ADVENSE HEACTIONS

CARDUPA has been administered to approximately 4000 patients, of whom 1679 were included in the clinical development program. In that program, minor adverse effects were frequent, but led to discontinuation of treatment in only 7% of patients. In placebo-controlled studies adverse effects occurred in 49% and 40% of patients in the doxazosin and placebo groups, respectively, and led to discontinuation in 2% of patients in each group. The major reasons for discontinuation were postural effects (2%), edema, malaise/fatigue, and some heart rate disturbance, each about 0.7%.

In controlled clinical trials directly comparing CARDURA to place to there was no significant difference in the incidence of side effects, except for dizziness (including postural), weight gain, somnolence and fatigue/malaise. Postural

effects and edema appeared to be dose related.

The prevalence rates presented below are based on combined data from placebo-controlled studies involving once daily administration of doxazosin at doses ranging from 1-16 mg, Table 1 summarizes those adverse experiences (possibly/probably related) reported for patients in these studies where the prevalence rate in the doxazosin group was at least 0.5% or where the reaction is of particular interest.

TABLE 1 ADVERSE REACTIONS DURING PLACEBO CONTROLLED STUDIES

	and the same	DOXAZOSIN (N=339)	PLACEBO (N=336)
CARDIOVASCULAR:	Dizziness	19%	9%
	Vertigo	2%	1%
	Postural Hypotension	0.3%	0%
	Edema	4%	3%
	Palpitation	2%	3%
	Arrhythmia	1%	0%
	Hypotension	1%	0%
	Tachycardia	0.3%	1%
	Peripheral Ischemia	0.3%	0%
SKIN APPENDAGES:	Rash	1%	1%
	Pruritus	1%	1%
MUSCULOSKELETAL:	Arthralgia/Arthritis	1%	0%
	Muscle Weakness	1%	0%
	Myalgia	1%	0%
CENTRAL &			
PERIPHERAL N.S.:	Headache	14%	16%
	Paresthesia	1%	1%
	Kinetic Disorders	1%	0%
	Ataxia	1%	0%
	Hypertonia	1%	0%
	Muscle Cramps	1%	0%

AL THE	CHARLES	DOXAZOSIN (N=339)	PLACEBO (N=336)
AUTONOMIC:	Mouth Dry	2%	2%
	Flushing	1%	0%
SPECIAL SENSES:	Vision Abnormal	2%	1%
	Conjunctivitis/Eye Pain	1%	1%
	Tinnitus	1%	0.3%
PSYCHIATRIC:	Somnolence	5%	1%
	Nervousness	2%	2%
	Depression	1%	1%
	Insomnia	1%	1%
	Sexual Dysfunction	2%	1%
GASTROINTESTINAL:	Nausea Diarrhea Constipation Dyspepsia Flatulence Abdominal Pain Vomiting	3% 2% 1% 1% 1% 0%	4% 3% 1% 1% 1% 2% 1%
RESPIRATORY:	Rhinitis	3%	1%
	Dyspnea	1%	1%
	Epistaxis	1%	0%
URINARY:	Polyuria	2%	0%
	Urinary Incontinence	1%	0%
	Micturation Frequency	0%	2%
GENERAL:	Fatigue/Malaise	12%	6%
	Chest Pain	2%	2%
	Asthenia	1%	1%
	Face Edema	1%	0%
	Pain	2%	2%

Additional adverse reactions have been reported, but these are, in general, not distinguishable from symptoms that might have occurred in the absence of exposure to doxazosin. The following adverse reactions occurred with a frequency of between 0.5% and 1%: syncope, hypoesthesia, increased sweating, agitation, increased weight. The following additional adverse reactions were agitation, increased weight. The following additional adverse reactions were reported by <0.5% of 3960 patients who received doxazosin in controlled or open, short- or long-term clinical studies, including international studies. Cardiovascular System: angina pectoris, myocardial infarction, creatbrovascular accident, Autonomic Nervous System: palior, Metabolic: thirst, gout, hypokalemia; Hematopoietic: hymphadenopathy, purpura, Reproductive System: breast pain; Six m Disorders: alopecia, dry skin, ezema: Central Nervous System: paresis, tremor, twitching, confusion, migraine, impaired concentration. Psychatric: paroninia, amnesia, emotional lability, abnormal thinking, depersonalization; Special Persess parosmis, earothe, teste perversion, photophobia, abnormal lacrimation; Gastrointestinal System: increased appetite, anorexia, feaci incontinence, asstroenteritis: Resignatory System: increased appetite, anorexia, feaci incontinence, asstroenteritis; Resignatory System: increased appetite, anorexia, feaci incontinence, asstroenteritis; Sessiratory System: increased appetite, anorexia, feaci incontinence, asstroenteritis; Sessiratory System: increased appetite, parosxia, feaci principrious, authorities sortinated in anorexia, fecal incontinence, gastroenteritis; Respiratory System: bronchos sinustits, coughing, pharyngitis; Urinary System: renal calculus, General Body System: hot flushes, back pain, infection, fever/rigors, decreased weight,

influenza-like symptoms.

CARDURA has not been associated with any clinically significant changes in routine biochemical tests. No clinically relevant adverse effects were noted on serum potassium, serum glucose, uric acid, blood urea nitrogen, creatinine or liver function tests. CARDURA has been associated with decreases in white blood cell counts (See Precautions).

OVERDOSAGE

OVENDOSAGE. No data are available in regard to overdosage in humans. The oral LD_{SQ} of doxazosin is greater than 1000 mg/kg in mice and rats. The most likely manifestation of overdosage would be hypotension, for which the usual treatment would be intravenous influsion of fluid. As doxazosin is highly protein bound, dialysis would not be indicated. Dosage AND ADMINISTRATION

DOSADE MUST SE MOIVIDUALIZED. The initial dosage of CARDURA in hypertensive patients is 1 mg given once dally. This starting dose is intended to minimize the frequency of postural hypotension and first dose syncope associated with CARDURA. Postural effects are most likely to occur between 2 and 6 hours after a dose. Therefore biood pressure measurements should be taken during this time period after the first dose and with each increase in dose. Depending on the individual patient's standing blood pressure response (based on measurements taken at 2-6 hours postdose and 24 hours postdose), dosage may then be increased to 2 mg and thereafter if necessary to 4 mg, 8 mg and 16

may the three desired reduction in blood pressure. Increases in dose beyond 4 mg increase the likelihood of excessive postural effects including syncope, postural dizzines/verligo, postural hypolension. At a littlated dese to 3% for placebo. HOW SUPPLIED

CARDURA (doxazosin mesvlate) is available as colored tablets for oral administration. Each tablet contains doxazosin mesylate equivalent to 1 mg (white), 2 mg (yellow), 4 mg (orange) or 8 mg (green) of the active constituent,

doxazosin.

CARDURA® TABLETS are available as 1 mg (white), 2 mg (yellow), 4 mg.
(orange) and 8 mg (green) scored tablets.

Bottles of 100: 1 mg (NDC 0049-2756-66), 2 mg (NDC 0049-2760-66), 4 mg.
(NDC 0049-2776-66), 8 mg (NDC 0049-2780-66)

Recommended Storage: Store below 86°F(30°C).

CAUTION: Federal law prohibits dispensing without prescription Issued Nov 1990



For Your Protection: The OSHA Regulations on Bloodborne Pathogens

OSHA TRAINING KIT AGAIN AVAILABLE FROM AMERICAN MEDICAL TELEVISION AND THE AMERICAN MEDICAL ASSOCIATION

The regulations on bloodborne pathogens, issued by the Occupational Safety and Health Administration (OSHA) last year, continue to change the way health care facilities cope with occupational hazards to their employees. Educating and training health care workers are key elements. A comprehensive training program produced by American Medical Television in conjunction with the American Medical Association, will help the physician, clinics and hospitals comply with the OSHA requirement to train staff in the material covered under these regulations.

Available in kit format, For Your Protection: The OSHA Regulations on Bloodborne Pathogens includes everything the practicing physician and his or her staff need to comply with the OSHA regulations on bloodborne pathogens plus the mandatory Hepatitis B Vaccine Declination.

Training materials include:

25-minute VHS Videocassette - Covers relevant portions of the OSHA Standards as they apply to most health care facilities, including the physician's office.

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Model Exposure Control Plan - Designed to help any health care facility develop their own written procedures, as required by the OSHA Standard. This simple, easy-to-follow format provides a step-by-step approach for compliance, dramatically reducing the time required to develop these written procedures.

Five Training Manuals - Provide back-up reference for employees, reinforcing material presented on the videocassette.

For Your Protection: The OSHA Regulations on Bloodborne Pathogens training kit is the *only* OSHA kit reviewed for accurate medical and scientific content by the American Medical Association.

Completion of this training program has also been designated by the AMA as a Continuing Medical Education activity, worth 2 credit hours of Category 1 of the Physician Recognition Award of the AMA.

The complete For Your Protection: The OSHA Regulations on Bloodborne Pathogens training kit is available for \$195, including S & H (\$150 for AMA Members, Hospitals, Institutions, Universities, and Government Offices).

To order call 1-800-398-CNBC.

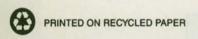
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References: 1, Levy B, Rosenberg LN, Colasante DA. A comparison of VERELAN® and Procardia® XL in the treatment of patients with mild to moderate hypertension. American College of Clinical Pharmacology. 21st Annual Meeting. 1992. Abstract. 2. Further analysis of Levy B, et al. (See reference 1, Data on file. Lederle Laboratories, Pearl River, NY.

VERELAN®

Verapamil HCI
Sustained-Release Pellet-Filled Capsules

For complete Prescribing Information, consult package insert.

Food does not affect the extent or rate of the absorption of verapamil from the controlled release VERELAN capsule.

Atrioventricular block can occur in patients without preexisting condition defects (see

Atrioventricular block can occur in patients without preexisting condition defects (see WARNINGS).

Acceleration of ventricular rate and/or ventricular fibrillation has been reported in patients with atrial fluiter or atrial fibrillation and a coexisting accessory AV pathway following administration of verapamil (see WARNINGS).

In patients with hepatic insufficiency, metabolism is delayed and elimination half-life prolonged up to 14 to 16 hours (see PRECAUTIONS), the volume of distribution is increased, and plasma clearance reduced to about 30% of normal.

CONTRAINDICATIONS

Severe LV dysfunction (see WARNINGS), hypotension (systolic pressure < 90 mmHg) or car-diogenic shock, sick sinus syndrome (if no pacemaker is present), second- or third-degree AV block (if no pacemaker is present), attial flutter/librillation with an accessory bypass tract (eg, WPW or LGL syndromes), (see WARNINGS), hypersensitivity to verapamil.

WARNINGS

WARNINGS

Verapamil should be avoided in patients with severe LV dysfunction (eg. ejection fraction) or moderate-to-severe symptoms of cardiac failure and in patients with any degree of ventricular dysfunction if they are receiving a beta blocker. Control milder heart failure with optimum digitalization and/or diuretics before VERELAN is used. Verapamil may occasionally produce hypotension. Elevations of liver enzymes have been reported.

Several cases of hepatocellular injury have been demonstrated to be produced by verapamil. Periodic monitoring of liver function in patients on verapamil is prudent. Some patients with paroxysmal and/or chronic atrial flutter/fibrillation and an accessory AV pathway (eg. WPW or LGL syndromes) have developed an increased antegrade conduction across the accessory pathway bypassing the AV node, producing a very rapid ventricular response or ventricular fibrillation after receiving IV verapamil (or digitalis). Because of this risk, oral verapamil is contraindicated in such patients. AV block may occur (second- or third-degree block requires reduction in dosage or, rarely, discontinuation and institution or appropriate therapy. Sinus bradycardia, second-degree AV block, sinus arrest, pulmonary edema and/or severe hypotension were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated with verapamil.

PREFEAUTIONS

PRECAUTIONS

Verapamil should be given cautiously to patients with impaired hepatic function (in severe dysfunction use about 30% of the normal dose) or impaired renal function, and patients should be monitored for abnormal prolongation of the PR interval or other signs of overdosage. Verapamil may decrease neuromuscular transmission in patients with Duchenne's muscular dystrophy and may prolong recovery from the neuromuscular blocking agent vecuronium. It may be necessary to decrease verapamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenergic blockers and verapamil may result in additive negative effects on heart rate, atrioventricular conduction and/or cardiac contractility, there have been reports of excessive bradycardia and AV block, including complete heart block. The risks of such combined therapy may outweigh the benefits. The combination should be used only with caution and close monitoring. Decreased metoprolol clearance may occur with combined use. Chronic verapamil treatment can increase serum digoxin levels by 50% to 75% during the first week of therapy, which can result in digitals toxicity. In patients with hepatic cirrhosis, verapamil may reduce total body clearance and extrarenal clearance of digitoxin. The digoxin dose should be reduced when verapamil is given and the patient carefully monitored. Verapamil will usually have an additive effect in patients receiving blood pressure-lowering agents. Disopyramide should not be given within 48 hours before or 24 hours after verapamil administration. Concomitant use of flecainide and verapamil may have additive effects on myocardial contractility, AV conduction, and repolarization. Combined verapamil and quinidine therapy in patients with hypertrophic cardiomyopathy should be avoided, since significant hypotension may result. Verapamil has been given concomitantly with short- and long-acting nitrates without any undesirable drug interactions. Interaction between cimetidine and chronically administere

ADVERSE REACTIONS

ADVERSE REACTIONS
Reversible (upon discontinuation of verapamil) nonobstructive, paralytic ileus has been infrequently reported in association with the use of verapamil.
In clinical trials with 285 hypertensive patients on VERELAN for more than 1 week, the following adverse reactions were reported: constipation (7.4%); headache (5.3%); dizziness (4.2%); lethargy (3.2%); dyspepsia (2.5%); rash (1.4%); sleep disturbance (1.4%); he following reactions have occurred at rates greater than 1.0%: constipation (7.3%); dizziness (3.3%); nausea (2.7%); hypotension (2.5%); edema (1.9%); headache (2.2%); rash (1.2%); CHFpulmonary edema (1.8%); fatigue (1.7%); bradycardia (HR<50/min) (1.4%); AV block-total 1°, 2°, 3° (1.2%); 2° and 3° (0.8%); flushing (0.6%); elevated liver enzymes (see WARNINGS).
The following reactions, reported in 1.0% or less of patients, occurred under conditions (open trials, marketing experience) where a causal relationship is uncertain. Cardiovascular; angina pectoris, atrioventricular dissociation, chest pain, claudication, myocardial infarction, palpitations, purpura (vasculitis), syncope. Digestive System: diarrhea, dry mouth, gastrointestinal distress, gingival hyperplasia. Hemic and Lymphatic: ecchymosis or bruising. Nervous System: cerebrovascular accident, confusion, equilibrium disorders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somnolence. Respiratory: dyspnea. Skin: arthralgia and rash, exanthema, hair loss, hyperkeratosis, maculae, sweating, urticaria, Stevens-Johnson syndrome, erythema multiforme. Special Senses: blurred vision. Urogenital: gynecomastia, impotence, increased urination, spotty menstruation.

Lederle

LEDERLE LABORATORIES DIVISION American Cyanamid Company Pearl River, NY 10965

by ELAN PHARMACEUTICAL RESEARCH CORP. Gainesville, GA 30501



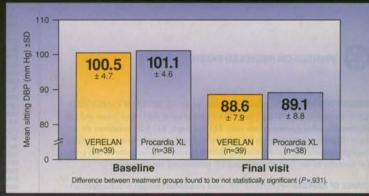


A-H-ROBINS



AS EFFECTIVE AS PROCARDIA XL° IN REDUCING BP AT THE 24TH HOUR'

Reduction in mean DBP measured 24 ± 2 hours after dosing



Results of a 12-week, randomized, double-blind, parallel, comparative study of patients with mild-to-moderate hypertension in 10 study sites nationwide. Patients not controlled on VERELAN 240 mg/day were titrated to 360 mg/day and, if needed, 480 mg/day; patients not controlled on Procardia XL 30 mg/day were titrated to 60 mg/day and, if needed, 90 mg/day. There was no significant difference between groups in the number of titrations to goal DBP (<90 mm Hg).

*Procardia XL is a registered trademark of Pfizer Inc.

Constipation, which can easily be managed in most patients, is the most frequently reported side effect of verapamil.

Please see brief summary of Prescribing Information on adjacent page.



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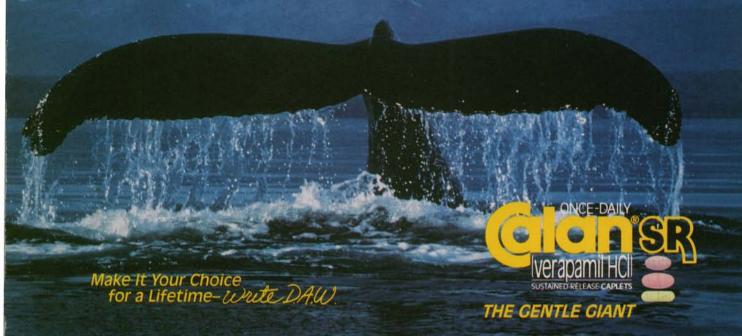
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A BALANCE OF GENTLENESS AND POWER



The recommended starting dosage for Calan SR is 180 mg once daily. Dose titration will be required in some patients to achieve blood pressure control. A lower starting dosage of 120 mg/day may be warranted in some patients (eg. the elderly, patients of small stature). Dosages above 240 mg daily should be administered in divided doses. Calan SR should be administered with food. Constipation, which is easily managed in most patients, is the most commonly reported side effect of Calan SR.

Contraindications: Severe LV dysfunction (see Warnings), hypotension (systolic pressure

Contrainatea trons. Severe LV dystruction (see Warnings), hypotension (systonic pressure < 90 mm Hg) or cardiogenic shock, sick sinus syndrome (if no pacemaker is present), 2nd-or 3rd-degree AV block (if no pacemaker is present), atrial flutter/fibrillation with an accessory bypass tract (eg. WPW or LGL syndromes), hypersensitivity to verapamil.

Warnings: Verapamil should be avoided in patients with severe LV dysfunction (eg. ejection fraction < 30%) or moderate to severe symptoms of cardiac failure and in patients with any degree of ventricular dysfunction if they are receiving a beta-blocker. Control milder heart failure with optimum digitalization and/or diuretics before Calan SR is used. Verapamil may occasionally with opinium digitalization and of districts before cause in its user. Verapamil may occasionally produce hypotension. Elevations of liver enzymes have been reported. Several cases have been demonstrated to be produced by verapamil. Periodic monitoring of liver function in patients on verapamil is prudent. Some patients with paroxysmal and/or chronic atrial flutter/fibrillation and an accessory AV pathway (eg. WPW or LGL syndromes) have developed an increased antegrade an accessory or pathway egy, VVV or Cat syndroness have developed at included conduction across the accessory pathway bypassing the AV node, producing a very rapid ventricular response or ventricular fibrillation after receiving IV verapamil (or digitalis). Because of this risk, oral verapamil is contraindicated in such patients. AV block may occur (2nd- and 3rd-degree, 0.8%). Development of marked 1st-degree block or progression to 2nd- or 3rd-degree block requires reduction in dosage or, rarely, discontinuation and institution of appropriate therapy. Sinus bradycardia, 2nd-degree AV block, sinus arrest, pulmonary edema and/or severe hypoten-sion were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated

with verapamil.

Precautions: Verapamil should be given cautiously to patients with impaired hepatic function (in severe dysfunction use about 30% of the normal dose) or impaired renal function, and patients should be monitored for abnormal prolongation of the PR interval or other signs of overdosage. Verapamil may decrease neuromuscular transmission in patients with Duchenne's muscular dystrophy and may prolong recovery from the neuromuscular blocking agent vecuronium. It may be necessary to decrease verapamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenergic blockers and verapamil may result in additive negative effects on beart rate attraventriculae, condusting and/or partial condustricular therap have been Combined therapy with beta-adrenergic blockers and verapamil may result in additive negative effects on heart rate, attroventricular conduction and/or cardiac contractility, there have been reports of excessive bradycardia and AV block, including complete heart block. The risks of such combined therapy may outweigh the benefits. The combination should be used only with caution and close monitoring. Decreased metoprolol and propranolol clearance may occur when either drug is administered concomitantly with verapamil. A variable effect has been seen with combined use of atenolol. Chronic verapamil treatment can increase serum digoxin levels by 50% to 75% during the first week of therapy, which can result in digitalis toxicity. In patients with hepatic cirrhosis, verapamil may reduce total body clearance and extrarenal clearance of digitoxin. The digitalis of the produced when verapamil is given, and the patient carefully monitored. digaxin dose should be reduced when verapamil is given, and the patient carefully monitored. Verapamil will usually have an additive effect in patients receiving blood-pressure-lowering agents.

Disopyramide should not be given within 48 hours before or 24 hours after verapamil administra bisopyranitie should find be given whilm a hours before 0.2.4 hours are veragamic administra-tion. Concomitant use of ffecanide and veragamil may have additive effects on myocardial contractility. AV conduction, and repolarization. Combined veragamil and quinidine therapy in patients with hypertrophic cardiomyopathy should be avoided, since significant hypotension may result. Concomitant use of lithium and veragamil may result in an increased sensitivity to lithium ineurotoxicity), with either no change or an increase in serum lithium levels, however, it may also result in a lowering of serum lithium levels. Patients receiving both drugs must be monitored carefully. Verapamil may increase carbamazepine concentrations during combined use. Rifampin may reduce verapamil bioavailability. Phenobarbata may increase verapamil clearance. Verapamil may increase serum levels of cyclosporin. Verapamil may inhibit the clearance and increase the plasma levels of theophylline. Concomitant use of inhalation anesthetics and calcium antagonists and calcium antagonists. needs careful titration to avoid excessive cardiovascular depression. Verapamil may potent activity of neuromiscular blocking agents (curare-like and depolarizing); dosage reduction may be required. There was no evidence of a carcinogenic potential of verapamil administered to rats for 2 years. A study in rats did not suggest a tumorigenic potential, and verapamil was not mutagenic in the Ames test. Pregnancy Category C. There are no adequate and well-controlled studies in pregnant women. This drug should be used during pregnancy, labor, and delivery only if clearly needed. Verapamil is excreted in breast milk, therefore, nursing should be discontinued during

Adverse Reactions: Constipation (7.3%), dizziness (3.3%), nausea (2.7%), hypotension (2.5%) headache (2.2%), edema (1.9%). CHF pulmonary edema (1.8%), fatigue (1.7%), dyspinas (1.4%), bradycardia: HR < 50/min (1.4%), AV block, total 1.2.3° (1.2%), 2 and 3° (0.8%), rash (1.2%), flushing (0.6%), elevated liver enzymes, reversible non-obstructive paralytic ileus. The following reactions, reported in 1.0% or less of patients, occurred under conditions where a tollowing reactions, reported in 10% of less of patients, occurred under conditions where a causal relationship is uncertain, angina pectoris, atrioventricular dissociation, chest pain, claudication, myocardial infarction, palpitations, purpura (vasculins), syncope, diarrhea, dry mouth, gastrointestinal distress, gingival hyperplasia, ecchymosis or bruising, cerebrovascular accident, confusion, equilibrium disorders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somnolence, arthralgia and rash, exanthema, hair loss, hyperkeratosis, macules, sweating, urticaria, Sevens-Johasson syndrome, erythema multiforme, blurred vision, gynecomastia, galactorrhea/hyperprolactinemia, increased urination, spotty menstruation, impotence.

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A92CA7501T

Now lactose-free doesn't

The "best of both worlds" in an everyday formula



have to mean milk-free!

More like breast milk than other lactose-free formulas

	CARBOHYDRATE	PROTEIN	FAT
Breast Milk	LACTOSE	HUMAN MILK PROTEIN	HUMAN MILK FAT
Milk-Based Formula	LACTOSE	MILK PROTEIN	VEGETABLE OIL BLEND*
Lactofree™	LACTOSE FREE	MILK PROTEIN VEGETABLE OIL BLEND	
Soy-Based Formula	LACTOSE FREE	SOY PROTEIN	VEGETABLE OIL BLEND*

The benefits of milk protein without the problems of lactose

- Keeps milk protein-the preferred[†] protein source-in the infant's diet
- Avoids or resolves common feeding problems associated with lactose:
 - fussiness/crying gas diarrhea
- Easy to digest
- No other formula has a fat blend closer to breast milk[‡]

Recommend...



for Baby's First Year and Beyond

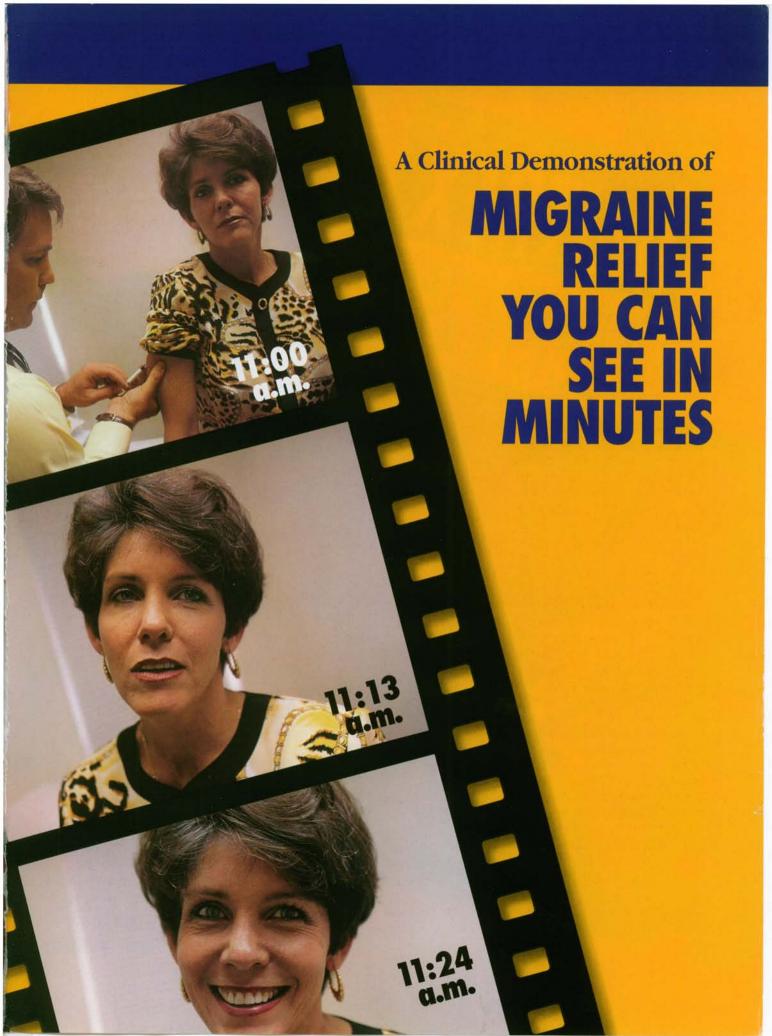
The first milk-based formula[§] with the lactose-free difference

† Data on file, Mead Johnson & Company

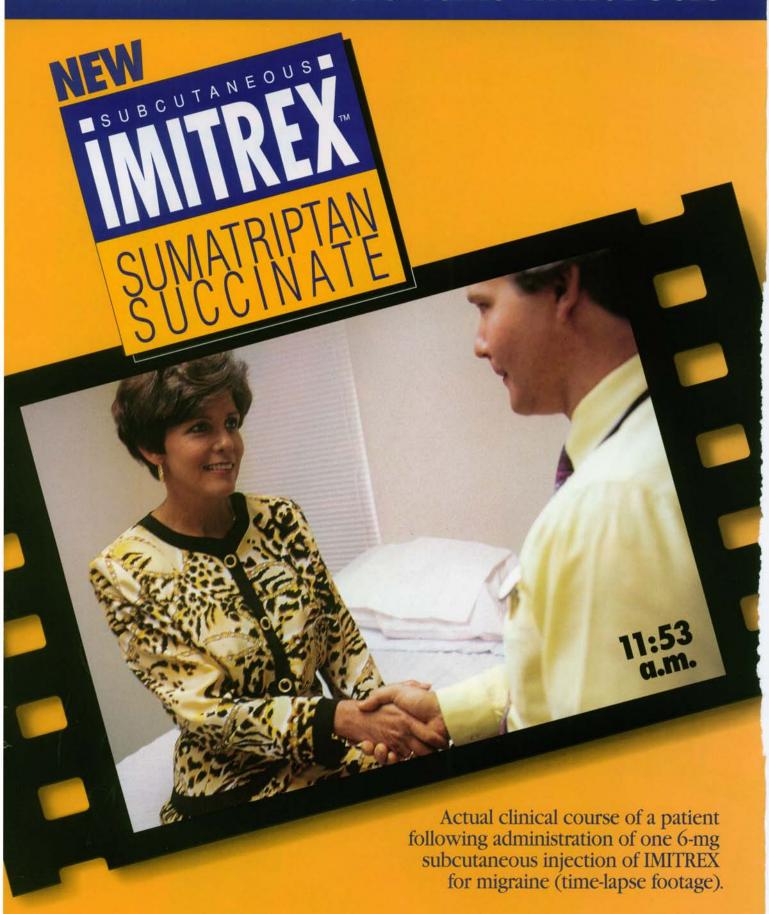
Mead Johnson & Company, Evansville, Indiana 47721, U.S.A. We know of no studies showing clinical benefits from fatty acid profiles closer to breast milk, but Mead Johnson believes such profiles are prudent and appropriate

§ Based on milk protein isolate

^{*} SMA and Nursoy (registered trademarks of Wyeth-Ayerst Laboratories, Philadelphia, PA) contain some animal fats.



CERENEX PHARMACEUTICALS INTRODUCES



MIGRAINE RELIEF THAT CAN CHANGE PATIENTS' LIVES

IMITREX is the first highly specific 5-HT₁ receptor agonist—offering a profile of relief unlike any other migraine therapy.

Relief that begins within 10 minutes.^{1,2}

Relief any time IMITREX is taken during the attack. 1,3,4

Relief of the total symptom complex: pain, nausea, vomiting, and light and sound sensitivity.¹⁻⁴

Relief of the disability caused by migraine.1-4

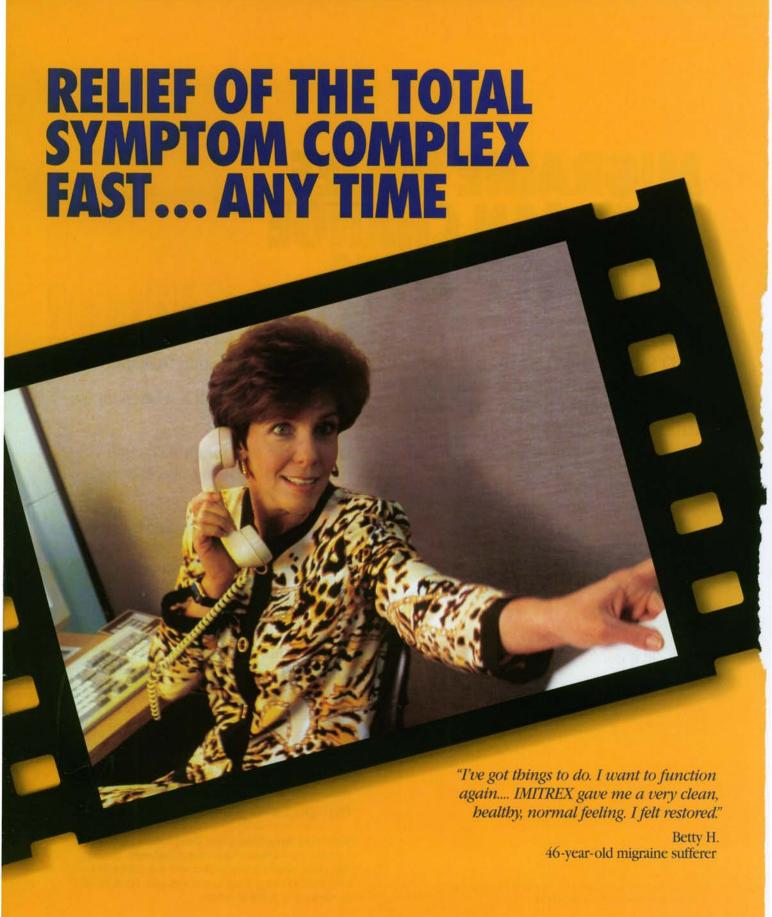
Relief without sedation.

Relief in a simple, convenient dose: one 6-mg subcutaneous injection.*

Relief within reach for patients:
The IMITREX™ SELFdose System—
a push-button autoinjector with single-dose,
prefilled syringes.

Relief of migraine attacks with or without aura. (IMITREX should not be administered to patients with basilar or hemiplegic migraine.)

^{*}Maximum daily dose is two 6-mg subcutaneous injections (minimum 1-hour interval between doses). No clear benefit is associated with the administration of a second 6-mg dose in patients who have failed to respond to a first injection.





RELIEF WITHOUT COMPROMISE

IMITREX is highly selective.

IMITREX is nonsedating.

There is no evidence of interactions between IMITREX and prophylactic migraine medications (verapamil, amitriptyline, and propranolol).

Cardiovascular considerations

IMITREX is contraindicated in patients with ischemic heart disease, symptoms or signs consistent with ischemic heart disease, or Prinzmetal's angina because of the potential to cause coronary vasospasm. IMITREX is contraindicated in patients with uncontrolled hypertension because it can give rise to increases in blood pressure (usually small).

Although serious coronary events are extremely rare, consideration should be given to administering the first dose of IMITREX in-office to patients in whom unrecognized coronary disease is comparatively likely.

Pregnancy category C

There are no adequate and well-controlled studies in pregnant women; IMITREX should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. (Please see Precautions.)

Worldwide clinical experience

IMITREX has been utilized by over 6,000 patients, treating more than 10,000 attacks in well-controlled clinical trials.⁵

Reported adverse events are generally mild and transient.

	IMITREX (6 mg) (n=547)	Placebo (n=370)
Atypical sensations	42.0%	9.2%
Tingling	13.5%	3.0%
Warm/hot sensation	10.8%	3.5%
Burning sensation	7.5%	0.3%
Feeling of heaviness	7.3%	1.1%
Pressure sensation	7.1%	1.6%
Feeling of tightness	-5.1%	0.3%
Flushing	6.6%	2.4%
Injection-site reaction	58.7%	23.8%
Dizziness/Vertigo	11.9%	4.3%

Most adverse events were mild and resolved spontaneously within 10 to 30 minutes.³

Withdrawals due to adverse events are comparable to those seen with placebo (≤3.5% in controlled clinical trials).²⁴

For a complete listing of side effects, please consult Brief Summary of Prescribing Information on the last page of this advertisement.

MIGRAINE RELIEF THAT CAN CHANGE PATIENTS' LIVES



RELIEF WITHIN REACH FOR PATIENTS

The IMITREX™ SELFdose System: a push-button autoinjector with single-dose, prefilled syringes.

Allows patients to self-administer IMITREX whenever and wherever migraine strikes.

High patient acceptance.4

— 92% of patients who self-administered IMITREX would be willing to take it again.⁵

Efficacy equivalent to physicianadministered IMITREX.²⁻⁴

For use only by patients for whom a 6-mg dose has been prescribed.



References: 1. Complete Prescribing Information, IMITREX™ (sumatriptan succinate) Injection. January 1993. 2. Cady RK et al. Treatment of acute migraine with subcutaneous sumatriptan. JAMA. 1991;265:2831-2835. 3. The Subcutaneous Sumatriptan International Study Group. Treatment of migraine attacks with sumatriptan. N. Engl. J. Med. 1991;325:316-321. 4. The Sumatriptan Auto-Injector Study Group. Self-treatment of acute migraine with subcutaneous sumatriptan using an auto-injector device. Eur Neurol. 1991;31:323-331. 5. Data on file, Glaxo Inc.

IMITREX offers simple, convenient dosing.

The recommended dose is one 6-mg subcutaneous injection.

If migraine symptoms return, a second 6-mg dose may be administered.

The maximum dose within 24 hours is two 6-mg subcutaneous injections (minimum 1-hour interval between doses).

No clear benefit is associated with the administration of a second 6-mg dose in patients who have failed to respond to a first injection.

Although the recommended dose is 6 mg, if side effects are dose limiting, then lower doses may be used.

IMITREX should not be used within 24 hours of administration of ergotamine-containing preparations.

Please consult Brief Summary of Prescribing Information on the last page of this advertisement.

Imitrex[™](sumatriptan succinate) Injection

For Subcutaneous Use Only.

The following is a brief summary only. Before prescribing, see complete prescribing information in Imitrex™ Injection product labeling. IMDICATIONS AND USAGE: Imitrex™ Injection is indicated for the acute treatment of migraine attacks with or without aura.

Imitrex Injection is not for use in the management of hemiplegic or basilar migraine (see WARNINGS).

Safety and effectiveness have also not been established for cluster headache, which is present in an older, predominantly male population. CONTRAINDICATIONS: Imitrex™ Injection should not be given intravenously because of its potential to cause coronary vasospasm. For similar reasons, Imitrex Injection should not be given

For similar reasons, Imitrex Injection should not be given subcutaneously to patients with ischemic heart disease (angina pectoris, history of myocardial infarction, or documented silent ischemia) or to patients with Prinzmetal's angina. Also, patients with symptoms or signs consistent with ischemic heart disease should not receive Imitrex Injection. Because Imitrex Injection can give rise to increases in blood pressure (usually small), it should not be given to patients with uncontrolled hypertension.

patients with uncontrolled hypertension.
Imitrex Injection should not be used concomitantly with ergotamine-containing preparations.

Imitrex Injection is contraindicated in patients with hypersensitivity to sumatriptan.

WARNINGS

Imitrex™ Injection should not be administered to patients with basilar or hemiplegic migraine.

Cardiac Events/Coronary Constriction: Serious coronary events following Imitrex Injection can occur but are extremely rare; nonetheless, consideration should be given to administering the first dose of Imitrex Injection in the physician's office to patients in whom unrecognized coronary disease is comparatively likely (postmenopausal women; males over 40; patients with risk factors for CAD, such as hypertension, hypercholesterolemia, obesity, diabetes, smokers, and strong family history). If symptoms consistent with angina occur, electrocardiographic evaluation should be carried out to look for ischemic changes.

Sumatriptan may cause coronary vasospasm in patients with a history of coronary artery disease who are known to be more susceptible than others to coronary artery vasospasm and rarely in patients without prior history suggestive of coronary artery disease. There were eight patients among the more than 1,900 who participated in controlled trials who sustained clinical events during or shortly after receiving subcutaneous sumatriptan that may have reflected coronary vasospasm. Six of these eight patients had ECG changes consistent with transient schemia, but without symptoms or signs. Of the eight patients, four had some findings suggestive of coronary artery disease prior to treatment. None of these adverse events was associated with a serious clinical outcome.

There have been rare reports from countries in which Imitrex Injection has been marketed of serious and/or life-threatening arrhythmias, including atrial fibrillation, ventricular fibrillation, ventricular tachycardia and myocardial infarction, as well as marked ischemic ST elevations associated with Imitrex Injection. In addition, there have been rare, but more frequent, reports of chest and arm discomfort thought to represent angina pectoris.

Use in Women of Childbearing Potential: (see PRECAUTIONS) PRECAUTIONS:

General: Chest, jaw, or neck tightness is relatively common after ImitrexTM
Injection, but has only rarely been associated with ischemic ECG changes.

injection, but has only lately been associated with schemic EGG changes.

Imitrex Injection may cause mild, transient elevation of blood pressure and peripheral vascular resistance (see CLINICAL PHARMACOLOGY section of the product package insert).

Imitrex Injection should also be administered with caution to patients with diseases that may alter the absorption, metabolism, or excretion of drugs, such as impaired hepatic or renal function.

Although written instructions are supplied with the autoinjector, patients who are advised to self-administrer Imitrex Injection in medically unsupervised situations should receive instruction on the proper use of the product from the physician or other suitably qualified health care professional prior to doing so for the first time. Information for Patients: See PATIENT INFORMATION at the end of the product package insert for the separate leaflet provided for patients. Laboratory Tests: No specific laboratory tests are recommended for monitoring patients prior to and/or after treatment with Imitrex Injection. Drug Interactions: There is no evidence that concomitant use of migraine prophylactic medications has any effect on the efficacy or unwanted effects of sumatriptan. In two phase III trials in the USA, a retrospective analysis of 282 patients who had been using prophylactic drugs (verapamil n=63, amitriptyline n=57, propranolol n=94, for 45 other drugs n=123) were compared to those who had not used prophylaxis (n=452). There were no differences in relief rates at 60 minutes postdose for Imitrex Injection, whether or not prophylactic medications were used. There were also no differences in overall adverse event rates between the two groups.

Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because there is a theoretical basis that these effects may be additive, use of ergotamine and sumatriptan within 24 hours of each other should be avoided (see CONTRAINDICATIONS)

hours of each other should be avoided (see CONTRAINDICATIONS).

Drug/Laboratory Test Interactions: Imitrex Injection is not known to interfere with commonly employed clinical laboratory tests.

Carcinogenesis, Mutagenesis, Impairment of Fertility: In a 104-week lifetime study in rats given sumatriptan by oral gavage, serum concentrations achieved were dose related, ranging at the low dose from approximately twice the peak concentration of the drug after the recommended human subcutaneous dose of 6 mg to more than 100 times this concentration at the high dose. There was no evidence of an increase in tumors considered to be related to sumatriptan administration.

In a 78-week study in which mice received sumatriptan continuously in drinking water, there was no evidence for an increase in tumors

considered to be related to sumatriptan administration. That study, however, did not use the maximum tolerated dose and therefore did not fully explore the carcinogenic potential of Imitrex™ (sumatriptan succinate) Injection in the mouse.

A segment I rat fertility study by the subcutaneous route has shown no evidence of impaired fertility.

Pregnancy: Pregnancy Category C: Sumatriptan has been shown to be embryolethal in rabbits when given in daily doses producing plasma levels 3-fold higher than those attained following a 6-mg subcutaneous injection (i.e., recommended dose) to humans. There is no evidence that establishes that sumatriptan is a human teratogen; however, there are no adequate and well-controlled studies in pregnant women. Imitrex Injection should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

In assessing this information, the following additional findings should be considered.

Embryolethality: When given intravenously to pregnant rabbits daily throughout the period of organogenesis, sumatriptan caused embryolethality at doses at or close to those producing maternal toxicity. The mechanism of the embryolethality is not known. At these doses, peak concentrations of drug in plasma were more than 3-fold higher than the range observed in humans after the recommended subcutaneous dose of 6 mg.

The intravenous administration of sumatriptan to pregnant rats throughout organogenesis at doses producing plasma concentrations more than 50 times those seen after the recommended subcutaneous human dose did not cause embryolethality. In a study of pregnant rats given subcutaneous sumatriptan daily prior to and throughout pregnancy. There was no evidence of increased embryofetal lethality.

Teratogenicity: Term fetuses from Dutch Stride rabbits treated during organogenesis with oral sumatriptan exhibited an increased incidence of cervicothoracic vascular defects and minor skeletal abnormalities. The functional significance of these abnormalities is not known.

In a study in rats dosed daily with subcutaneous sumatriptan prior

to and throughout pregnancy, there was no evidence of teratogenicity. Studies in rats and rabbits evaluating the teratogenic potential of sumatriptan administered subcutaneously only during organogenesis (standard Segment II studies) have not been performed.

Nursing Mothers: Sumatriptan is excreted in breast milk in animals. No data exist in humans. Therefore, caution should be exercised when considering the administration of Imitrex Injection to a nursing woman. Pediatric Use: Safety and effectiveness of Imitrex Injection in children have not been established.

Use in the Elderly: The safety and effectiveness of Imitrex Injection in individuals over age 65 have not been systematically evaluated. However, the pharmacokinetic disposition of Imitrex Injection in the elderly is similar to that seen in younger adults. No unusual adverse, age-related phenomena have been identified in patients over the age of 60 who participated in clinical trials with Imitrex Injection.

ADVERSE REACTIONS: (see also PRECAUTIONS) Sumatriotan may

ADVERSE REACTIONS: (see also PRECAUTIONS) Sumatriptan may cause coronary vasospasm in patients with a history of coronary artery disease, known to be susceptible to coronary artery vasospasm, and,

very rarely, without prior history suggestive of coronary artery disease. There have been rare reports from countries in which Imitrex*Miplettion has been marketed of serious and/or life-threatening arrhythmias, including atrial fibrillation, ventricular fibrillation, ventricular tachycardia, myocardial infarction, and marked ischemic ST elevations associated with Imitrex Injection (see WARNINGS). More often, there has been chest discomfort that appeared to represent angina pectoris.

Other untoward clinical events associated with the use of subcutaneous Imitrex Injection are: pain or redness at the injection site, atypical sensations (such as sensations of warmth, cold, tingling or paresthesia, pressure, burning, numbness, tightness, all of which may be localized or generalized), flushing, chest symptoms (pressure, pain, or tightness), fatigue, dizziness, and drowsiness. All these untoward effects are usually transient, although they may be severe in some patients. Transient rises in blood pressure soon after treatment have been recorded.

Among patients in clinical trials of subcutaneous lmitrex Injection (n=6,218), up to 3.5% of patients withdrew for reasons related to adverse events

Incidence in Controlled Clinical Trials: The following table lists adverse events that occurred in two large US, Phase III, placebo-controlled clinical trials following either a single dose of Imitrex injection or placebo. Only events that occurred at a frequency of 1% or more in Imitrex Injection treatment groups and were at least as frequent as in the placebo group are included in table.

frequent as in the placebo group are included in table.

Treatment-Emergent Adverse Experience Incidence
in Two Large Placebo-Controlled Clinical Trials:

Events Reported by at Least 1% of I mitrex injection Patients

	Percent of Patier	nt of Patients Reporting		
Adverse Event Type	Imitrex Injection 6 mg SC n=547	Placebo n=370		
Atypical sensations	42.0	9.2		
Tingling	13.5	3.0		
Warm/hot sensation	10.8	3.5		
Burning sensation	7.5	0.3		
Feeling of heaviness	7.3	1.1		
Pressure sensation	7.1	1.6		
Feeling of tightness	5.1	0.3		
Numbness	4.6	2.2		
Feeling strange	2.2	0.3		
Tight feeling in head	2.2	0.3		
Cold sensation	1.1	0.5		
Cardiovascular				
Flushing	6.6	2.4		
Chest discomfort	4.5	1.4		
Tightness in chest	2.7	0.5		
Pressure in chest	1.8	0.3		

	Percent of Patients Reporting		
	Imitrex Injection		
	6 mg SC	Placebo	
Adverse Event Type	n=547	n=370	
Ear, nose, and throat			
Throat discomfort	3.3	0.5	
Discomfort: nasal cavity/sinuses	2.2	0.3	
Eye			
Vision alterations	1.1	0.0	
Gastrointestinal			
Abdominal discomfort	1.3	0.8	
Dysphagia	1.1	0.0	
Injection site reaction	58.7	23.8	
Miscellaneous			
Jaw discomfort	1.8	0.0	
Mouth and teeth			
Discomfort of mouth/tongue	4.9	4.6	
Musculoskeletal			
Weakness	4.9	0.3	
Neck pain/stiffness	4.8	0.5	
Myalgia	1.8	0.5	
Muscle cramp(s)	1.1	0.0	
Neurological			
Dizziness/vertigo	11.9	4.3	
Drowsiness/sedation	2.7	2.2	
Headache	2.2	0.3	
Anxiety	1.1	0.5	
Malaise/fatigue	1.1	0.8	
Skin			
Sweating	1.6	1.1	

The sum of the percentages cited are greater than 100% because patients may experience more than one type of adverse event. Only events that occurred at a frequency of 1% or more in Imitrex™ (sumatriptan succinate) Injection treatment groups and were at least as frequent as in the placebo groups are included.

Other Events Observed in Association With the Administration of

Other Events Observed in Association With the Administration of Imitrex Injection: In the paragraphs that follow, the frequency of less commonly reported adverse clinical events are presented. Because the reports cite events observed in open and uncontrolled studies, the role of Imitrex Injection in their causation cannot be reliably determined. Furthermore, variability associated with reporting requirements, the terminology used to describe adverse events, etc., limit the value of the quantitative frequency estimates provided.

Event frequencies are calculated as the number of patients reporting an event divided by the total number of patients (n=6,218) exposed to subcutaneous Imitrex Injection. Given their imprecision, frequencies for specific adverse event occurrences are defined as follows: "infrequent" indicates a frequency estimated as falling between 1/1,000 and 1/1/10". Tage: "a frequency less than 1/1 000".

and 1/100; "rare," a frequency less than 1/1,000.

Cardiovascular: Infrequent were hypertension, hypotension, bradycardia, tachycardia, palpitations, pulsating sensations, various transient electrocardiographic changes (nonspecific ST or T wave changes, prolongation of PR or QTc intervals, sinus arrhythmia, nonsustained ventricular premature beats, isolated junctional ectopic beats, atrial ectopic beats, delayed activation of the right ventricle), and syncope. Rare were pallor, arrhythmia, abnormal pulse, vasodilatation, and Raynaud's syndrome.

Endocrine and Metabolic: Infrequent was thirst. Rare were polydipsia and dehydration.

Eye: Infrequent was irritation of the eye.

Gastrointestinal: Infrequent were gastroesophageal reflux, diarrhea, and disturbances of liver function tests. Rare were peptic ulcer, retching, flatulence/eructation, and gallstones.

Musculoskeletal: Infrequent were various joint disturbances (pain, stiffness, swelling, ache). Rare were muscle stiffness, need to flex calf muscles, backache, muscle tiredness, and swelling of the extremitics. Neurological: Infrequent were mental conflusion, euphoria, agitation,

Neurological: intrequent were mental confusion, euphoria, agitation, relaxation, chills, sensation of lightness, tremor, shivering, disturbances of taste, prickling sensations, paresthesia, stinging sensations, headaches, facial pain, photophobia, and lachrymation. Rare were transient hemiplegia, hysteria, globus hystericus, intoxication, depression, myoclonia, monoplegia/diplegia, sleep disturbance, difficulties in concentration. disturbances of smell, hyperesthesia, dysesthesia, simultaneous hot and cold sensations, tickling sensations, dysarthria, yawning, reduced appetite, hunger, and dystonia.

Respiratory: Infrequent was dyspnea. Rare were influenza, diseases of the lower respiratory tract, and biccoughs.

Dermatological: Infrequent were erythema, pruritus, and skin rashes and eruptions. Rare was skin tenderness.

Urogenital: Rare were dysuria, frequency, dysmenorrhea, and renal calculus.

Miscellaneous: Infrequent were miscellaneous laboratory abnormalities, including minor disturbances in liver function tests, "serotonin agonist effect," and hypersensitivity to various agents. Rare was fever.

Postmarketing Experience: Frequency and causality for sumatriptan are not established for many of the following reports which come from worldwide postmarketing experience: Episodes of Prinzmetal's angina, myocardial infarction, acute renal failure, seizure, CVA, dysphasia, subarachnoid hemorrhage, and arrhythmias (atrial fibrillation, ventricular fibrillation, and ventricular tachycardia).

cular fibrillation, and ventricular tachycardia).

DRUG ABUSE AND DEPENDENCE: The abuse potential of ImitrexTM
Injection cannot be fully delineated in advance of extensive marketing experience. One clinical study enrolling 12 patients with a history of substance abuse failed to induce subjective behavior and/or physiologic response ordinarily associated with drugs that have an established potential for abuse.

PHARMACEUTICALS

DIVISION OF GLAID INC.

Research Triangle Park, NC 27709

January 1993

SUC5



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Interventions: The DT-aP vaccines contained 23.4 µg each of pertussis toxin and filamentous hemagglutinin per 0.5 mL and the same concentrations of diphtheria and tetanus toxoids as WC-DTP. Serum samples were obtained on the day of immunization and 4 to 6 weeks later. Adverse reactions at 6, 24, 48, and 72 hours were recorded by parents who were contacted by telephone at 24 and 72 hours and 14 days after immunization.

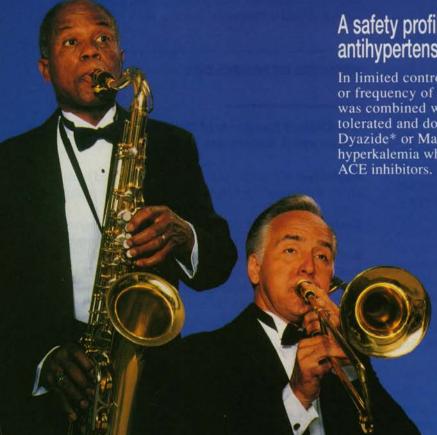
Measurements/Main Results: An indirect enzyme-linked immunosorbent assay method was used to determine IgG antibody response to pertussis toxin and filamentous hemagglutinin and IgG, IgA, and IgM to tetanus toxoids; a Chinese hamster ovary cell assay was used to measure functional antibodies to pertussis toxin; serum neutralization on VERO cells assayed diphtheria antitoxin. Recipients of the DT-aP vaccine had fewer local reactions in the first 6 to 48 hours and fewer systemic reactions at 24 hours than did recipients of the WC-DTP vaccine. Acetaminophen was administered to 31% of DT-aP recipients compared with 63% of WC-DTP recipients. Infants given DT-aP had higher geometric mean antibody titer levels against pertussis antigens after vaccination. **Conclusions:** The BIKEN DT-aP vaccine used in this study is less reactogenic and more immunogenic for selected pertussis antigens than the WC-DTP vaccine in children aged 15 to 20 months.

(1993;147:290-294) John F. Marcinak et al, MD, Department of Pediatrics (M/C 856), The University of Illinois at Chicago, 840 S Wood St, Chicago, IL 60612.

ARCHIVES OF SURGERY

Can Patients With Minor Head Injuries Be Safely Discharged Home?

o identify all patients with serious intracranial injury, current treatment strategies include admission and/or computed tomographic evaluation of all patients with head injuries. However, the majority of patients with head injuries who are awake do not require subsequent intervention. A review of 407 consecutive patients with head injuries treated at an adult regional trauma center identified 310 patients with Glasgow Coma Scores of 15 in the emergency department, all of whom were admitted. Five patients with Glasgow Coma Scores of 15 required intervention for intracranial abnormality. All five patients had skull fractures and/or neurologic deficits. Based on this and other studies, criteria for discharge from the emergency department are a Glasgow Coma Score of 15, no deficit except amnesia, no signs of intoxication, and no evidence of basilar fracture on clinical examination or linear fracture on screening skull roentgenography. Safe discharge without universal computed tomographic evaluation or admission is possible and cost-efficient.



A safety profile that works in concert with other antihypertensive agents

In limited controlled trials, no notable change in the nature or frequency of adverse reactions was shown when LOZOL was combined with other antihypertensives. LOZOL is well tolerated and does not adversely affect lipids.1-4 And unlike Dyazide* or Maxzide, there may be no increased risk of hyperkalemia when LOZOL is used in combination with

> ONCE A DAY CONFIDENCE

- Dyazide (triamterene-hydrochlorothiazide), a potassium-sparing diuretic, is a registered trademark of SmithKline Beecham
- † Maxzide (triamterene-hydrochlorothiazide), a potassium-sparing diuretic, is a registered trademark of Lederle Laboratories.

Please see brief summary of prescribing information below

LOZOL® (indapamide) 2.5 mg tablets BRIEF SUMMARY

INDICATIONS AND USAGE: 1 0701. (indapamide) is indicated for the treatment of hypertension, alone or in combination with other antihypertensive drugs, and for the treatment of salt and fluid retention associated with congestive heart failure. Usage in Pregnancy: See PRECAUTIONS.

CONTRAINDICATIONS: Anuna, hypersensitivity to indapamide or other sulfonamide

WARNINGS: infrequent cases of severe hyponatremia, accompanied by hypokalemia, have been reported with the use of recommended doses of indapamide primarily in elderly temales. Symptoms were reversed by electrolyte replenishment (see PRECALTIONS), Hypokalemia occurs commonly with diuretors (see ADVERSE REACTIONS, hypokalemia), and electrolyte monitoring is essential. In general, diuretics should not be given with lithium.

duretics should not be given with lithium.

PRECAUTIONS: Perform serum electrolyte determinations at appropriate intervals, especially in patients who are vomining excessively or receiving parenteral fluids, in patients subject to electrolyte imbalance, or in patients on a saft-restricted diet. In addition, patients should be observed for clinical signs of fluid or electrolyte imbalance, such as hyponatrema, hypophotherma caskiaosis, or hyposlaerina. The risk of hyposlaerina secondary to diuress and natriuress is increased with larger doses, with brisk diuress, with severe cirrhosis, and with concomitant use of corticosteroids or ACTH. Interference with adequate or all intake of electrolytes will also contribute to hypokalemia. Hypokalemia can sensitize or exaggerate the response of the heart to the touc effects of digitalis, such as increased evinicular initiality. Diutional hyponatrema may occur in edematous patients; appropriate treatment is usually water restriction. In actual sail depeletion, appropriate replacement is the treatment of choice. Chloride effect is usually mild, not requiring specific treatment except in extraordinary orcumstances (liver, renal disease). Hyperuricemia may occur, and frank gout may be precipitated in certain patients receiving indapamide. Serum concentrations of unc acid should be monitored.

receiving indapamide. Serum concentrations of unic acid should be monitored periodically.

Use with caution in patients with severe renal disease; consider withholding or discontinuing if progressive renal impairment is observed. Renal function tests should be performed periodically.

Use with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance may prespirate hepatic coma. Latent diabetes may become manifest and insulin requirements in diabetic patients may be altered during thiazide administration. Serum concentrations of glucose should be monitored routinely during treatment with indapamide.

Calcium excretion is decreased by diuretics pharmacologically related to indapamide. Serum concentrations of calcium increased only slightly with indapamide in long-term studies of hypertensive patients. Indapamide may decrease serum PBI levels without signs of throrid disturbance. Compications of hypergarathyroidsm have not been seen. Discontinue before tests of parathyroid function are performed. Thiazdes have exacerbated or activated systemic lupus erythematosus. Consider this possibility with indapmide.

possibility with indapamide

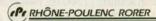
DRUG INTERACTIONS: LOZOI, may add to or potentiate the action of other antihypertensive drugs. The antihypertensive effect of the drug may be enhanced in the postsympathectomized patient. Indepartied may decrease arterial responsiveness to norepinephrine, but this does not preclude the use of norepinephrine. In mouse and rat lifetime carcinogenicity studies, there were no significant differences in the incidence of tumors between the indapamide-treated animals and the control

Pregnancy Category B: Diuretics cross the placental barrier and appear in cord blood indiparmide should be used during pregnancy only if clearly needed. Use may be associated with fetal or neonatal jaundice, thrombocytopenia, and possibly other adverse effects that have occurred in adults. It is not known whether this drug is excreted in human milk. If use of this drug is deemed essential, the patient should stop

ADVERSE REACTIONS: Most adverse effects have been mild and transient. From Phase II placebo-controlled studies and long-term controlled clinical trials, adverse reactions with ≥ 5% cumulative incidence: headache, dizziness, fatigue, weakness, loss reacution with 2.5% committee includes, exactle, relabative, exactless, laugue, excessions, or of energy, lethargy, tredness or malaise, muscle cramps or spasm or numbness of the extremilies, nervousness, tension, anoiety, irritability or agitation; < 5% cumulative incidence: lightheadedness, drowsiness, vertigo, insomna, depression, hurred vision, constipation, nausea, vomiting, darthea, gastric irritation, abdominal pain or cramps, anorexia, orthostatic hypotension, premature ventricular contractions, irregular heart beat papitations, frequency of unitation, nordura polyvinar, rash, hives, puritus, vasculitis, impotence or reduced libido, rhinorrhea, flushing, hyperunicemia, vasculis, impotence or reduced libido, rhinormea, flushing, hyperuncemia, hyperglycemia, hyponatremia, hypochloremia, increase in serum BUN or creatinine, glycosuna, weight loss, dry mouth, lingling of extremities. Hypokalemia with concomitant clinical signs or symptoms occurred in 3% of patients receiving indapamide 2.5 mg, q.d. and 7% of optents receiving indapamide 5 mg q.d. In long-term controlled clinical trials comparing the hypokalemic effects of daily doses of indapamide and hydrochlorothiazobe, however, 47% of patients receiving indapamide 2.5 mg, 72% of patients receiving indapamide 5 mg, and 44% of patients receiving hydrochlorothiazobe 50 mg had at least one potassium value (out of a total of 11 taken during the study) below 3.5 mEg/L. On the indapamide 2.5 mg group, over 50% of those patients returned to normal serum polassium values without intervention. Other adverse reactions reported with antihypentensive/diuretics are intrahepatic cholestatic jaundice, saladentitis, xanthopsia, photosensitivity, purpura, bullous eruptions, Stevers-Johnson syndrome, necrobizing angilis, lever, respiratory distress (including pneumonitis), anaphylactic reactions, agranulocytosis, leukopenia, thrombocytopenia

CAUTION: Federal (U.S.A.) law prohibits dispensing without prescription. Keep tipitly closed. Sibre at room temperature. Avoid excessive heat. Dispense in tight containers as defined in USP. See product circular for full prescribing information. Revised: March 1992.

References: 1. Beling S, Vukovich RA, Neiss ES, et al: Long-term experience with indapamide. Am Heart J 1983;106(1, Part 2):258-262. 2. Meyer-Sabellek W, Gotzen R, Heitz J, et al: Serum lipoprotein levels during long-term treatment of hypertension with indapamide. Hypertension 1985;7(Suppl II):170-174. 3. Horgan JH, O'Donovan A. Teo Independent of the properties of the properti term effects of indapar 1984;35(1):17-22. mide in patients with essential hypertension. Curr Ther Res



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RX Anaprox®DS Anaprox® (NAPROXEN SODIUM)

SYNTEX PUENTO RCO. NG

As with other NSAIDs, the most frequent complaints are gastrointestinal. See Warnings, Precautions, and Adverse Reactions sections of prescribing information. Please see adjacent page for brief summary of prescribing information. © 1993 Syntex Puerto Rico, Inc. 811-J2-557-92

Brief Summary:
Contraindications: Patients who have had allergic reactions to NAPROSYN®
ANAPROX® or ANAPROX® DS or in whom aspirin or other NSAIDs induce the syndrome of asthma, rhimitis, and nasal polyps. Because anaphylactic reactions usually occur in patients with a history of such reactions, question patients for asthma, nasal polyps, urticaria, and hypotension associated with NSAIDs before starting therapy. If such symptoms occur, discontinue the drug.

Whaterier's Serious of the view to be belodien subcontine and porforcing care.

Warnings: Serious Gl toxicity such as bleeding, ulceration, and perforation, can occur at any time, with or without warning symptoms, in patients treated chroni-cally with NSAIDs. Remain alert for ulceration and bleeding even in the absence only minimum of management of previous GI tract symptoms. In clinical trials, symptomatic upper GI ulcers gross bleeding or perforation occur in about 1 % of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. Inform patients of signs and/or symptoms of serious GI toxicity and what steps to take if they occur.
Studies have not identified any subset of patients not at risk of developing peptic
ulceration and bleeding. Except for a prior history of serious GI events and other risk factors associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well and most spontaneous reports of fatal GI events are in this population. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of

Precautions: DO NOT GIVE NAPROSYN® (NAPROXEN) CONCOMITANTLY WITH Precautions: DU NOI GIVE NAPROSYN® (NAPROXEN) CONCOMINIATI YWITH AMAPROX® OR AMAPROX® DS (NAPROXEN SOLDIM) SINCE THEY CIRCULATE IN PLASMA AS THE NAPROXEN ANION. Acute interstitial nephritis with hematuria, proteinuria, and nephrotic syndrome has been reported. Patients with impaired renal function, heart failure, liver nysfunction, potients taking diuretics, and the elderly are at greater risk of overt renal decompensation. If this occurs, discontique the drug. Use with caution and monitor serum creatinine and/or creatinine clearance in patients with significantly impaired renal function. Use caution in patients with baseline creatinine clearance less than 20 ml/minute. Use the low est effective dose in the elderly or in patients with chronic alcoholic liver disease or cirrhosis. Borderline elevations of liver tests may occur in up to 15% of patients. Elevations of SQF or SQF occurred in controlled trials in less than 1% of patients. Severe hepatic reactions, including jaundice and fatal hepatitis, have on partiests. Severe repartir reactions, including guidules and ratan repartitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g., eosinophilia or rash), discontinue therapy, If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including adrenal insufficiency and exacerbation of arthritis symptoms. Determine hemoglobin values periodically for patients with initial values of 10 grams or less who receive long-term therapy. Peripheral edema has been reported. For patients with restricted sodium intake, note that each tablet conreported. For patients with restricted sodium intake, note that each tablet con-tains approximately 25 or 50 mg/cl or 2 mcgls odium. Use with caution in patients with fluid retention, hypertension or heart failure. The drug may reduce fever and inflammation, diminishing their dagnostic value. Conduct ophthalmic studies if any change or disturbance in vision occurs. Information for Patients: Side effects can cause discomfort and, rarely, more serious side effects, such as GI bleeding, may result in hospitalization and even fatal outcomes. Physicians may whish to discuss with patients potential risks and benefits of NSAIDs, particularly when they are used for less serious conditions where treatment without NSAIDs may be acceptable. Patients should use caution for activities requiring alertness may be acceptable. Patents should use earthorn or activities requiring aierness if they experience drowsiness, dizziness, vertigo or depression during therapy. Laboratory Tests: Because serious GI tract ulceration and bleeding can occur without warning symptoms, follow chronically treated patients and inform them of the importance of the follow-up. Brug Interactions: Use caution when giving concomitantly with cournarin-type anticoagulants; a hydantoin, sulfonamide or sulfonylurea; trucsemide, lithium, beta-blockers, probenecid; or methotrexate. Suranyanea; income; financia, learning dear-process, procelector, or incontrolled and prolong bleeding time or increase urinary values for I7-ketogenic steroids. Temporarily stop therapy for 72 hours before adrenal function tests. May interfere with urinary assays of 5HIAA. Carcinogenesis: A 2-year rat study showed no evidence of carcinogenicity. Pregnancy: Category B. Do not use during pregnancy unless clearly meeded. Avoid use during late pregnancy unless of the proceeding and the process of 2.5-5 mg/kg (as naproxen suspension), with total daily dose not exceeding 15 mg/kg/day, are safe in children over 2 years

of age.

Adverse Reactions: In a study, GI reactions were more frequent and severe in rheumatoid arthritis patients on 1650 mg/day naproxen sodium than in those on 825 mg/day. In children with juvenile arthritis, rash and prolonged bleeding times were more frequent, GI and CNS reactions about the same, and other reactions less frequent than in adults. Incidence Greater Than 1%, Probable Causal tions less frequent than in adults. Incidence Greater Than 1%, Probable Causal Relationship. Gl. The most frequent complaints related to the Gl tract. constiguation, heardburn, abdominal pain, nausea, dyspepsia, diarrhea, stomatitis. CNS. headache, dizziness, drowsiness, light-headedness, vertigo. Dermatologic: riching (puritus)* skin eruptions, ecclymoses, sweating, purpura. Special Senses: tinnitus, hearing disturbances, visual disturbances. Cardiovascularedema; dyspnea, palpitations. General: thirst. "Incidence of reported reaction 3%. 9-%. Where unmarked, incidence less than 3%. Incidence Less Than 1%. Probable Causal Relationship. Gl. abnormal liver function tests, colitis, Gl bleeding and/or perforation hemateness; is audior, englean, pantic ulcreation, which ing and/or perforation, hematemesis, jaundice, melena, peptic ulceration with ing and/or perforation, hematemesis, jaundice, melena, peptic ulceration with bleeding and/or perforation, vormiting. Renal: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis. Hematologic: agranulocytosis, eosinophilia, granulocytosis, eosinophilia, granulocytopenia, leukopenia, Intrombocytopenia, CNS: depression, dream abnormalities, inability to concentrate, insomnia, malaise, myalgia and muscle weakness. Dermatologic: alopecia, photosensitive dermatitis, skin rashes. Special Senses: hearing impairment. Cardiovascular: congestive heart failura. Reppiratory: eosinophilic pneumonitis. General: anaphylactoid reactions, menstrual disorders, pyrexia (chills and fever). Causal Relationship Unknown. Hematologic: adastic anemia. hemolytic anemia. CNS: asserti meninetis. cognitive distuncdosorders, pyrexia (chills and lever), causal relationsing purknown: reintacuogic: aplastic anemia, hemolytic anemia. CNS: aseptic meningitis, cognitive dysfunction. Dermatologic: epidermal necrolysis, erythema multiforme, photosensitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa, Stevens-Johnson syndrome, urticaria. Gi. non-peptic Gi uceration, ulcerative stomatitis. Cardiovascular: vasculitis. General: angioneurotic edema, hyperglycemia, hypoglycemia.

Overdosage: May have drowsiness, heartburn, indigestion, nausea, vomiting. A

overousage: May nave drowsiness, Rearrourn, nogestion, nausea, vomitting. A few patients have had seizures. Empty stomach and use usual supportive measures. In animals 0.5 g/kg of activated charcoal reduced plasma levels of naproxen. Dosage and Administration for Mild to Moderate Pain, Dysmenorrhea and Acute Tendinitis and Bursitis: Recommended starting dose is 550 mg, followed by 275 mg even for 8 hours. Total daily dose should not exceed 1375 mg. Dosage and Administration for Rheumatoid Arthritis, Osteroarthritis and Ankylosing Spondylitis: Recommended dose in adults is 275 mg or 550 mg brice daily. In a nations who horizosed means the description of the processing the commended dose in adults is 275 mg or 550 mg brice daily. In a nations who horizosed means the description of the processing the commended dose in adults in 275 mg or 550 mg brice daily in a nations who horizosed means the days may be increased. Ankylosing Spolloyluss: Recommended coste in adults is 275 mg or 350 mg twice daily. In paintins who tolerate lower dose, well, the dose may be increased to 1650 mg per day for limited periods when a higher level of anti-inflammatory/ analgesic activity is required. At this dosage, physicians should observe sufficient increased clinical benefits to offset potential increased risk.

Caution: Federal law prohibits dispensing without prescription.

See package insert for full Prescribing Information.





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BRIEF SUMMARY (FOR FULL PRESCRIBING INFORMATION AND PATIENT INFORMATION, SEE PACKAGE CIRCULAR.)

Indications and Usage Ismo is indicated for prevention of angina pectoris due to coronary artery disease. The onset of action is not rapid enough for it to be useful in aborting an acute anginal episode.

Clinical Pharmacology isosorbide mononitrate is the major active metabolite of isosorbide dinitrate; most of the clinical activity of the dinitrate comes from the mononitrate. Ismo is not subject to first-pass metabolism in the liver and the absolute bioavailability of isosorbide mononitrate from Ismo tablets is nearly 100%. The rate of clearance of Ismo is the same in healthy young adults, in patients with various degrees of enable health; or cardiac destynation.

The fact or locatance of into its lie saint in Healthy young adults, in patients with various degrees or renal, hepatic, or cardiac dysfunction, and in the elderly.

Several well-controlled studies have demonstrated that active nitrates were indistinguishable from placebo after 24 hours (or less) of continuous therapy due to the development of tolerance. Only after nitrates are absent from the body for several hours is their antianginal efficacy restored.

The drug-free interval sufficient to avoid tolerance to isosorbide mononitrate is not completely defined. The only regimen shown to avoid development of tolerance with isosorbide mononitrate involves two daily doses of ismo tablets given 7 hours apart, so there is a gap of 17 hours between the second dose of each day and the first dose of the next day. Taking account of the relatively long half-life of isosorbide mononitrate this result is consistent with those obtained for other organic nitrates.

The same twice-daily regimen of Ismo tablets successfully avoided significant rebound/withdrawal effects. In studies of other nitrates, the incidence and magnitude of such phenomena appear to be highly dependent upon the schedule of nitrate administration.

Contraindications Allergic reactions are extremely rare, but do occur. Ismo is contraindicated in patients allergic to it

Warnings Because the effects of ismo are difficult to terminate rapidly and have not been established in patients with acute myocardial infarction (MI) or congestive heart failure (CHF), this drug is not recommended in these patients. If Ismo is used in these patients, careful clinical or hemodynamic monitoring is required to avoid the hazards of hypotension and tachycardia.

Precautions GENERAL Severe hypotension, particularly with upright posture, may occur with even small doses. Therefore, use with caution in patients who may be volume depleted or who are already hypotensive. Paradoxical bradycardia and increased angina pectoris may accompany Ismo-induced hypotension.

Nitrates may aggravate angina caused by hypertrophic cardiomyopathy.

INFORMATION FOR PATIENTS Tell patients they must carefully follow the prescribed dosing schedule (2 doses taken 7 hours apart) to maintain the antianginal effect (eg, take first dose on awakening and second dose 7 hours later).

Daily headaches sometimes accompany treatment with nitrates, including Ismo, and are a marker of drug activity. Patients with headaches should not alter their treatment schedule since loss of headache may be associated with simultaneous loss of antianginal efficacy. Headaches may be treated with aspirin and/or acetaminophen without affecting the antianginal activity of Ismo.

Light-headedness on standing, especially just after rising from a recumbent or seated position, may occur. This may be more frequent in patients who have consumed alcohol.

DRUG INTERACTIONS Vasodilating effects of Ismo may be additive with those of other vasodilators, especially alcohol.

Marked symptomatic orthostatic hypotension has been reported when calcium channel blockers and organic nitrates were used in combination. Dose adjustments of either class of agents may be necessary. CARCINOGENESIS, MUTAGENESIS, AND IMPAIRMENT OF FERTILITY No carcinogenic effects were observed in mice or rats exposed to oral Ismo, nor were adverse effects on rat fertility observed.

PREGNANCY CATEGORY C Ismo has been shown to have embryocidal effects in rats and rabbits at doses at least 70 times the maximum human dose. There are no adequate and well-controlled studies in pregnant women. Use during pregnancy only if potential benefit justifies potential fetal risk.

NURSING MOTHERS Excretion in human milk is unknown. Use caution if administered to a nursing woman. PEDIATRIC USE Safety and effectiveness have not been established.

Adverse Reactions Frequency of Adverse Reactions (Discontinuations)* Occurring in >1% of Subjects

	6 Controlled	U.S. Studies	92 Clinical Studies (varied)	
Dose	Placebo	20 mg		
Patients	204	219	3344	
Headache	9% (0%)	38% (9%)	19% (4.3%)	
Dizziness	1% (0%)	5% (1%)	3% (0.2%)	
Nausea, Vomiting	<1% (0%)	4% (3%)	2% (0.2%)	

*Some individuals discontinued for multiple reasons

No mutagenic activity was seen in in vitro or in vivo assays.

*Some individuals discontinued for multiple reasons
Fewer than 1% of patients reported each of the following (in many cases a causal relationship is uncertain):
Cardiovascular, angina pectoris, arrhythmias, atrial fibrillation, hypotension, palpitations, postural hypotension, premature ventricular contractions, supraventricular tachycardia, syncope. Dermatologic, pritus, rash. Gastrointestinal, abdominal pain, diarrhea, dyspepsia, tenesmus, tooth disorder, vomiting.
Genitourinary; dysuria, impotence, urinary frequency. Miscellaneous; asthenia, blurred vision, cold sweat, diplopia, edema, malaise, neck stiffness, rigors. Musculoskelata; arthralgia. Neurologic; agitation, anxiety, confusion, dyscoordination, hyposethseia, hypokinesia, increased appetite, insomnia, nervousness, nightmares. Respiratory; bronchitis, pneumonia, upper respiratory tract infection.

Rarely, ordinary doses of organic nitrates have caused methemoglobinemia in normal-seeming patients (See Overdosage).

Overdosage The ill effects of overdosage are generally related to the ability of Ismo to induce vasodilation, venous pooling, reduced cardiac output and hypotension. Symptoms may include increased intracranial pressure, with any or all of persistent throbbing headache, confusion, and moderate fever; vertigo; palpitations; visual disturbances; nausea and vomiting (possibly with cotic and even bloody diarrheas); syncope (especially with upright posture); air hunger and dyspnea, later followed by reduced ventilatory effort; diaphoresis, with the skin either flushed or cold and clammy; heart block and bradycardia; paralysis; coma; seizures and death.

Serum levels have no role in managing overdose. The likely lethal dose in humans is unknown.

There is neither a specific antidote to Ismo overdose, nor data to suggest a means for accelerating its elimination from the body; dialysis is ineffective. Hypotension associated with Ismo overdose results from venodilatation and arterial hypovelemia; therefore, direct therapy toward an increase in central fluid volume. Use of arterial vasoconstrictors (eg. epinephrine) is likely to do more harm than good. In patients with renal disease or CHF, treatment of Ismo overdose may be difficult and require invasive monitoring.

Methemoglobinemia has occurred in patients receiving other organic nitrates, and probably could occur as a side effect of Ismo. There are case reports of significant methemoglobinemia in association with moderate overdoses of organic nitrates. None of the affected patients had been thought to be unusually susceptible. Suspect the diagnosis in patients who exhibit signs of impaired oxygen delivery despite adequate cardiac output and adequate arterial pO₂. Classically, methemoglobinemic blood is chocolate brown, without color change on exposure to air. The treatment of choice for methemoglobinemia is methylene blue, 1-2 mg/kg intravenously.

DOSAGE AND ADMINISTRATION The recommended regimen of Ismo tablets is 20 mg (one tablet) twice daily, with the two doses given 7 hours apart. For most patients, this can be accomplished by taking the first dose on awakening and the second dose 7 hours later. This dosing regimen provides a daily nitrate-free interval to avoid the development of refractory tolerance (see Clinical Pharmacology).

Well-controlled studies have shown that tolerance to Ismo tablets is avoided when using the twice daily regimen in which the two doses are given 7 hours apart. This regimen has been shown to have antianginal efficacy beginning 1 hour after the first dose and lasting at least 5 hours after the second dose. The duration (if any) of antianginal activity beyond 12 hours has not been studied; large controlled studies with other nitrates suggest that no dosing regimen should be expected to provide more than 12 hours of continuous antianginal efficacy per day.

Dosage adjustments are not necessary in the elderly patients or in patients with altered renal or hepatic function

This Brief Summary is based upon the current Ismo direction circular, CI 4127-1, Issued January 10, 1992.

A-H-ROBINS







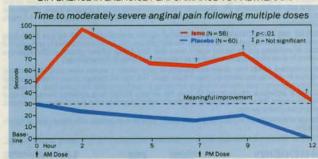


ACTIVITY YOU CAN COUNT ON

Antianginal activity for at least 12 hours*

In clinical trials, Ismo dosed at 8 AM and 3 PM for a period of 2 weeks demonstrated efficacy for at least 12 hours after the first dose, ie, 5 hours after the second dose, of each day.¹

DIFFERENCE IN EXERCISE PERFORMANCE VS PRETHERAPY



Baseline = 7 min 3 sec

(Adapted from Protocol 12)1

Predictable pharmacokinetic profile

Ismo is nearly 100% bioavailable. Blood levels following oral dosage are as predictable as those seen with I.V. isosorbide mononitrate administration.²

Helps get active patients active again

*The dosing schedule of 20 mg, twice daily, 7 hours apart (with a 17-hour dose-free interval) must be followed carefully.

Ismo is not recommended for use in aborting acute anginal episodes. The most common side effect, headache, may be managed with simple analgesics. As with other long-acting nitrates, Ismo is not recommended in patients with acute myocardial infarction or congestive heart failure.

References: 1. Data on file, Wyeth-Ayerst Laboratories, Protocol 12. 2. Abshagen U: Overview of the pharmacokinetics of isosorbide-5-mononitrate. In Julian DG, Rittinghausen R, Überbacher HJ, eds. Mononitrate II. New York: Springer-Verlag; 1987:pp 28-36.

Please see brief summary of prescribing information on adjacent page.

HARNESS THE TRIPLE THE POTENT

1. Fungicidal action

- Naftin® is fungicidal, not just fungistatic, to dermatophytes at low concentrations*
- Imidazoles (Spectazole[®], Nizoral[®], Lotrimin[®] and Lotrisone[®]*) are fungistatic at low concentrations.

3. Broad spectrum coverage

• Naftin® is effective against the dermatophytes which are associated with the majority of tinea infections.

Recommend Broad Spectrum Naftin® (naftifine hydro for the everyday treatment of tinea pedis, tinea cruri

The Standard of Skin Care

ALLERGAN Herbert

Skin Care Division Of Allergan, Inc.

Irvine, CA 92715 @ 1993 Allergan, Inc.

For a copy of "Diagnosis and Treatment of Fungal Info

*In vitro data, clinical significance unknown. A low incidence of irritation and
Please see adjacent page for brief summary of pres

-ACTION POWER OF ANTIFUNGAL.

2. Rapid symptomatic relief

- Even without a steroid, Naftin® Cream is as effective as Lotrisone® at relieving tinea-related pruritus and erythema.¹
- In comparative studies, Naftin[®] Cream-treated patients showed a marked decrease in scaling at week one and fissuring at week two compared to Spectazole[®]-treated patients.²



chloride) 1% Cream and Gel's and tinea corporis.

ctions," call: 1-800-934-3169.

Iryness was observed in clinical trials with Naftin® Cream.



(naftifine hydrochloride) 1% Cream 15g, 30g, 60g • Gel 20g, 40g, 60g

NAFTIN®

(naftifine hydrochloride) 1% Cream & Gel

INDICATIONS AND USAGE: Naftin® Cream, 1% is indicated for topical application in the treatment of tinea pedis, tinea cruris and tinea corporis caused by the organisms Trichophyton rubrum, Trichophyton mentagrophytes, and Epidermophyton floccosum. Naftin® Gel 1% is indicated for the topical treatment of tinea pedis, tinea cruris and tinea corporis caused by the organisms Trichophyton rubrum, Trichophyton mentagrophytes, Trichophyton tonsurans* and Epidermophyton floccosum.* *Efficacy for this organism in this organ system was studied in fewer than ten infections. CONTRAINDICATIONS: Naftin® Cream and Gel, 1% is contraindicated in individuals who have shown hypersensitivity to any of its components. WARNING: Naftin® Cream and Gel, 1% is for topical use only and not for ophthalmic use. PRECAUTIONS: General: Naftin® Cream and Gel, 1% is for external use only. If irritation or sensitivity develops with the use of Naftin® Cream and Gel, 1%, treatment should be discontinued and appropriate therapy instituted. Diagnosis of the disease should be confirmed either by direct microscopic examination of a mounting of infected tissue in a solution of potassium hydroxide or by culture on an appropriate medium. Information for patients: The patient should be told to: 1. Avoid the use of occlusive dressing or wrappings unless otherwise directed by the physician. 2. Keep Naftin® Cream and Gel, 1% away from the eyes, nose, mouth and other mucous membranes. Carcinogenesis, mutagenesis, impairment of fertility: Long-term animal studies to evaluate the carcinogenic potential of Naftin® Cream and Gel, 1% have not been performed. In vitro and animal studies have not demonstrated any mutagenic effect or effect on fertility. Pregnancy: Teratogenic Effects: Pregnancy Category B. Reproduction studies have been performed in rats and rabbits (via oral administration) at doses 150 times or more the topical human dose and have revealed no evidence of impaired fertility or harm to the fetus due to naftifine. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. Nursing mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Naftin® Cream and Gel. 1% is administered to a nursing woman. Pediatric use: Safety and effectiveness in children have not been established. ADVERSE REACTIONS: During clinical trials with Naftin® Cream, 1%, the incidence of adverse reactions was as follows: burning/stinging (6%), dryness (3%), erythema (2%), itching (2%), local irritation (2%). During clinical trials with Naftin® Gel, 1%, the incidence of adverse reactions was as follows: burning/stinging (5%), itching (1%), erythema (0.5%), rash (0.5%), skin tenderness (0.5%).

REFERENCES

- Smith EB et al. Double-blind comparison of naffifine cream and clottimazole/betamethasone dipropionate cream in the treatment of tinea pedis. J Am Acad Dermatol 1992:26:125-7.
- Millikon LE, et al. Noftifine cream 1% versus econozole cream 1% in the treatment of tinea cruris and tinea corporis. J Am Acad Dermatol 1988; 18:52-6.

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AMA / HIV Early Intervention Conference

Berlin Hilton Berlin, Germany June 5-6, 1993

A state-of-the-art conference on clinical care of early stage HIV patients. The role of primary care providers in preventing the further spread of HIV by the infected patients will also be addressed.

This conference is intended for physicians and others concerned with the primary care of patients with asymptomatic and mildly symptomatic HIV infection.

For further information contact:

John Henning, PhD Department of HIV American Medical Association 515 North State Street Chicago, IL 60610 USA

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American Medical Association

Physicians dedicated to the health of America





True once-daily antihypertensive control*

Proved by countless patients well controlled on one ISOPTIN SR tablet per day - 180 mg or 240 mg with virtually no change in metabolic parameters or quality of life (total daily doses above 240 mg should be administered in divided doses).

As evidenced by well-controlled, long-term studies at more than 40 US centers. With q.d. dosing, blood pressure was controlled at 24 hours as demonstrated by a drop in diastolic BP to target levels.

Supported by more than **58,000,000** prescriptions written for once-daily verapamil SR^t over the past **6** years.

ONCE-DAILY

(verapamil HCI) 1801240 mg Sustained-Release Tablets



^{*}Clinical effectiveness is unrelated to drug-plasma levels
†Constipation is the most frequently reported side effect of ISOPTIN* SR and is easily managed in most patients.
ISOPTIN* SR should be administered with food.
‡Verapamil SR produced by Knoll for Knoll Pharmaceutical Company and G.D. Searle & Co.

ONCE-DAILY Verapamil HCI) Sustained-Release Tablets Unsurpassed dosage flexibility



The recommended starting/maintenance dose



For patients who require a step up in dosage



For elderly or small-stature patients who require lower doses



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Brief Summary of Prescribing Information

Knoll Pharmaceutical Company 30 North Jefferson Road Whippany, New Jersey 07981

> CONTRAINDICATIONS: 1) Severe left ventricular dysfunction (see WARNINGS), 2) Hypotension (less CONTRAINDICATIONS: 1) Severe left ventricular dysfunction (see WARKINGS), 2) hypotension (esta than 90 mmHg systolic pressure) or cardiogenic shock, 3) sick sinus syndrome (except in patients with a functioning artificial ventricular pacemaker), 4) 2nd or 3rd degree AV block (except in patients with a functioning artificial ventricular pacemaker), 5) Patients with atrial flutter or atrial fibrillation and an accessory bypass tract (e.g., Wolft-Parkinson-White, Lown-Ganong-Levine syndromes), 6) Patients with known hypersensitivity to verapamil hydrochloride.

> Patients with known hypersensitivity to verapamil hydrochlonde.
>
> WARNINGS: Heart Failure: ISOPTIN should be avoided in patients with severe left ventricular dysfunction. Patients with milder ventricular dysfunction: Patients with milder ventricular dysfunction should, if possible, be controlled before verapamil treatment. ISOPTIN should be avoided in patients with any degree of left ventricular dysfunction if they are receiving a beta adrenergic blocker (see DRUG INTERACTIONS). Hypotension: ISOPTIN (verapamil HCI) may produce occasional symptomatic hypotension. Elevated Liver Enzymes: Elevations of transaminases with and without concomitant elevations in alkaline phosphatase and bilirubin have been reported. Periodic monitoring of liver function in patients receiving verapamil is therefore prudent. Accessory Bypass Tract (Wolft-Parkinson-White): Patients with paroxysmal and/or chronic atrial flutter or atrial fibrillation and a coexisting accessory AV pathway may develop increased antegrade conduction across the accessory pathway producing a very rapid ventricular response or ventricular fibrillation after receiving intravenous verapamil. While this has not been reported with oral verapamil, it should be considered a potential risk (see CONTRAINDICATIONS). Treatment is usually 0.C -cardioversion. Atrioventricular Block: The effect of verapamil on AV conduction and the SA block while infrequent (0.8%), may require a reduction in dosage or, in rate instances, discontinuablock, while infrequent (0.8%), may require a reduction in dosage or, in rare instances, discontinua-tion of verapamil HCI. **Patients with Hypertrophic Cardiomyopathy (IHSS)**: Although verapamil has been used in the therapy of patients with IHSS, severe cardiovascular decompensation and death have been noted in this patient population

> PRECAUTIONS: Impaired Hepatic or Renal Function: Verapamil is highly metabolized by the liver PREJAUTIUMS: Impaired Hepatic or Renal Function: Verapamil is highly metabolized by the liver with about 70% of an administered dose excreted as metabolites in the urine. In patients with impaired hepatic function the dose should be cut to 30% of the usual dose and the patient closely monitored. In patients with impaired renal function verapamil should be administered cautiously and the patients monitored for abnormal prolongation of the PR interval or other signs of excessive pharmacological effects (see OVERDOSE). Use in Patients with Attenuated (Decreased) Neuromuscular Transmission: Verapamil decreases neuromuscular transmission and may prolong recovery from neuromuscular blocking agents. In patients with attenuated neuromuscular transmission lower doses of verapamil may be warranted.

> Orug Interactions: Beta Blockers: Concomitant use of ISOPTIN and oral beta-adrenergic blocking agents may result in additive negative effects on heart rate, atrioventricular conduction, and/or cardiac contractility. Excessive bradycardia and AV block, has been reported. The combination should be used only with caution and close monitoring. Digitalis: Clinical use of verapamil in digitalized patients has shown the combination to be well tolerated. However, chronic verapamil treatment increases serum digoxin levels by 50% to 75% during the first week of therapy and this can result in digitalis toxicity. Upon discontinuation of ISOPTIN (verapamil HCI), the patient should be reassessed to avoid underdigitalization. Antihypertensive Agents: Verapamil administered concomitantly with oral antihypertensive agents (e.g., vasodiators, angiotensin-converting enzyme inhibitors, diuretics, alpha and beta adrenergic blockers) will usually have an additive effect on lowering blood pressure. Patients receiving these combinations should be appropriately monitored. Antiarrhythmic Agents: Disopyramide: Disopyramide should not be administered within 48 hours before or 24 hours after verapamil administration. Flecainide: Concomitant administration of flecainide and verapamil mesult in additive negative intoropic effect and prolongation of attrioventricular conduction. Quindine: verapamil administration. Flecainide: Concomitant administration of flecainide and verapamil may result in additive negative inotropic effect and prolongation of atrioventricular conduction. Quindlidine: In patients with hypertrophic cardiomyopathy (IHSS), concomitant use of verapamil and quinidine may result in significant hypotension. Other: Nitrates: The pharmacologic profile of verapamil and intrates as well as clinical experience suggest beneficial interactions. Cimetidine: Variable results on clearance have been obtained in acute studies of healthy volunteers; clearance of verapamil was either reduced or unchanged. Lithium: Pharmacokinetic (lowering of serum lithium levels) and pharmacodynamic (increased sensitivity to the effects of lithium) interactions between oral verapamil and lithium have been reported. Carbamazepine: Verapamil therapy may increase carbamazepine concentrations and produce related side effects during combined therapy. Rifampin: Therapy with rifampin may markedly reduce oral verapamil bioavailability. Phenobarbital: Phenobarbital therapy

may increase verapamil clearance. Cyclosporin: Verapamil therapy may increase serum levels of cyclosporin. Anesthetic Agents: Verapamil may potentiate the activity of neuromuscular blocking agents and inhalation anesthetics. Carcinogenesis. Mutagenesis. Impairment of Fertility. There was no evidence of a carcinogenic potential of verapamil administered to rats for two years. Verapamil was not mutagenic in the Ames test. Studies in female rats did not show impaired fertility. Verapamil was not mutagenic in the Ames test. Studies in lemane rats ion hot show impaired retrility. Effects on male fertility have not been determined. Pregnancy (Category C): There are no adequate and well-controlled studies in pregnant women. ISOPTIN crosses the placental barrier and can be detected in umbilical vein blood at delivery. This drug should be used during pregnancy, labor and delivery, only if clearly needed. Nursing Mothers: ISOPTIN is excreted in human milk, therefore, nursing should be discontinued while verapamil is administered. Pediatric Use: Safety and efficacy of ISOPTIN in children below the age of 18 years have not been established.

ADVERSE REACTIONS: Constipation 7.3%, dizziness 3.3%, nausea 2.7%, hypotension 2.5%, head-ache 2.2%, edema 1.9%, CHF/pulmonary edema 1.8%, fatigue 1.7%, dyspnea 1.4%, bradycardia 1.4%, 2° and 3° AV block 0.8%, rash 1.2%, flushing 0.6% and elevated liver enzymes (see WARN-INGS). The following reactions, reported in less than 1.0% of patients, occurred under conditions (open trials, marketing experience) where a causal relationship is uncertain; they are mentioned to alert the physician to a possible relationship: angina pectoris, atrioventricular dissociation, arthralgia and rash, blurred vision, cerebrovascular accident, chest pain, claudication, confusion, diarrhea, dry mouth, ecchymosis or bruising, equilibrium disorders, erythema multiforme, exanthema, gastrointestinal distress, gingival hyperplasia, gynecomastia, hair loss, hyperkeratosis, impotence, increased urination, insomnia, macules, muscle cramps, myocardial infarction, palpitations, paresthesia, psychotic symptoms, purpura (vasculitis), shakiness, somnolence, spotty menstruation, Steven-Johnson syndrome, sweating, syncope, urticaria.

Treatment of Acute Cardiovascular Adverse Reactions: Whenever severe hypotension or complete AV block occur following oral administration of verapamil, the appropriate emergency measures should be applied immediately, e.g., intravenously administered isoproterenol HCI, levarterenol bitartrate, atropine (all in the usual doses), or calcium gluconate (10% solution). If further support is necessary inotropic agents (dopamine or dobutamine) may be administered. Actual treatment and dosage should depend on the severity and the clinical situation and the judgment and experience of the treating

OVERDOSAGE: Treatment of overdosage should be supportive. Beta-adrenergic stimulation or parenteral administration of calcium solutions may increase calcium ion flux across the slow channel, and have been used effectively in treatment of deliberate overdosage with verapamil. Clinically significant hypotensive reactions or fixed high degree AV block should be treated with vasopressor agents or cardiac pacing, respectively. Asystole should be handled by the usual measures including cardiopul-

DOSAGE AND ADMINISTRATION

Essential Hypertension

The dose of ISOPTIN SR should be individualized by titration and the drug should be administered with food. Initiate therapy with 180 mg of sustained-release verapamil HCI, ISOPTIN SR, given in the morning. Lower, initial doses of 120 mg a day may be warranted in patients who may have an increased response to verapamil (e.g., the elderly or small people, etc.). Upward titration should be based on therapeutic efficacy and safety evaluated weekly and approximately 24 hours after the previous dose. The antihypertensive effects of ISOPTIN SR are evident within the first week of

therapy, If adequate response is not obtained with 180 mg of ISOPTIN SR, the dose may be titrated upward in the following manner:

. 240 mg each morning. 180 mg each morning plus 180 mg each evening, or 240 mg each morning plus 120 mg each evening.

c. 240 mg every twelve hours.

When switching from immediate release ISOPTIN to ISOPTIN SR, the total daily dose in milligrams may remain the same. 2767/2-90 Printed in U.S.A.

Encouragement

This message could be one of encouragement to you and, perhaps, certain of your patients.

Paget's disease of bone — not the rare disease it was once thought to be — is treatable in most cases. The earlier it is detected the more responsive to treatment it is likely to be. And detection can usually be accomplished with a few simple, non-invasive procedures.

Like many primary care physicians, you may feel uncomfortable treating Paget's disease because of little past experience. If so, write or call us for comprehensive, upto-date information about the disease and its diagnosis and treatment. Alternatively, ask for our extensive referral list of specialists.

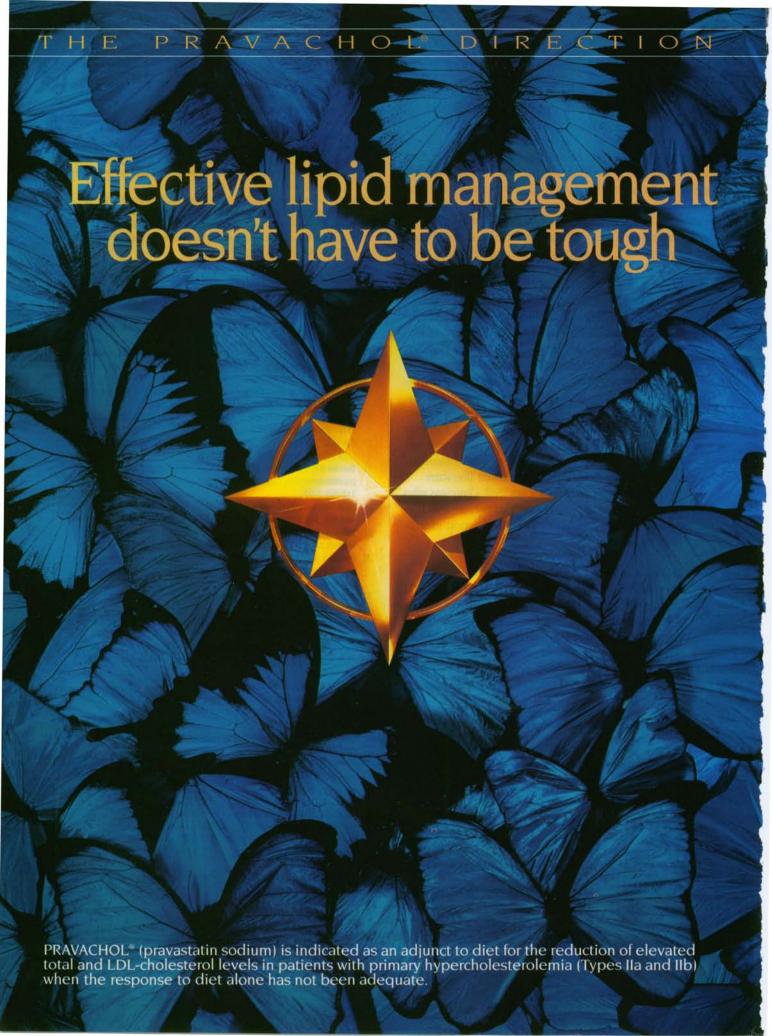
You may be able to offer someone a new lease on life. Or at least, encouragement.

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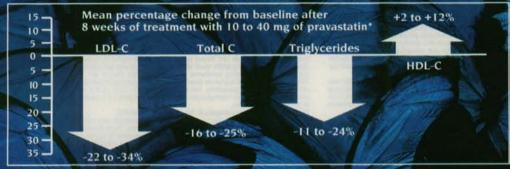
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April 1993
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Effective lipid management—improves key lipids

Significantly reduces LDL-C. Increases beneficial HDL-C.



*Each arrow represents a range of means derived from a single placebo-controlled study that included 55 patients treated with prayastatin.

Excellent safety/tolerability profile for patients

- Low incidence of side effects
- Discontinuation rate from pravastatin (1.7%) was not statistically different from that of placebo (1.2%)
- Active liver disease or unexplained transaminase elevations, pregnancy and lactation are contraindications to the use of pravastatin

Easy dosing regimen and other patient benefits

- Usual dose: 20 mg once daily at bedtime, with or without food
- PRAVACHOL can be used confidently with many other medications

PRAVACHOI pravastatin sodium 20 mg tablets



Please see CONTRAINDICATIONS, WARNINGS, PRECAUTIONS, and ADVERSE REACTIONS in the brief summary of prescribing information on the final page of this advertisement.

PRAYACHOL® (Pravastatin Sodium Tablets

ONTRAINDICATIONS
ypersensitivity to any component of this medication.

Hypersensitivity to any component of this medication. Active liver disease or unexplained, persistent evaluations in liver function tests (see WARNINGS).
Pregnancy and actation. Atherosclerosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hypercholesterolemia. Choelsterol and other products of cholesterol biosynthesis are assential components for fetal development (including synthesis of steroids and cell membranes). Since HMG-CoA reductase inhibitors decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol, they may cause fetal amm when administered to pregnant women. Therefore, HMG-CoA reductase inhibitors are contraindicated during pregnancy and in nursing mothers. Pravastatin should be administered to women of childbearing age only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the patient becomes pregnant while taking this class of drug, therapy should be discontinued and the patient apprised of the potential hazard to the fetus.

WARNINGS WARNINGS

WARNINGS
Liver Enzymee: HMG-CoA reductase inhibitors, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function. Increases of serum transaminase (ALT, AST) values to more than 3 times the upper initiof normal occurring on 2 or more (not necessarily sequential) occasions have been reported in 1.3% of patients treated with pravastatin in the U.S. over an average period of 18 months. These abnormalities were not associated with cholestasis and did not appear to be related to treatment duration. In those patients in whom these abnormalities were believed to be related to pravastatin and who were discontinued from therapy, the transaminase levels usually felt slowly to pretreatment levels. These biochemical findings are usually asymptomatic athough worldwide experience indicates that anorexia, weakness, and/or abdominal pain may also be present in rare nations.

rare patients.

As with other lipid-lowering agents, liver function tests should be performed during therapy with pravastatin.

Serum aminotransferases, including ALT (SGPT), should be monitored before treatment begins, every six weeks for the first three months, every eight weeks during the remainder of the first year, and periodically thereafter (e.g., at about six-month intervals). Special attention should be given to patients who develop increased transaminase levels. Liver function tests should be repeated to confirm an elevation and subsequently monitored at more frequent intervals. If increases in AST and ALT equal or exceed three times the upper limit of normal persist, then therapy should be discontinued. Persistence of significant aminotransferase elevations following discontinuation of therapy may warrant consideration of liver bioxocs.

then therapy smoule of discontinuous, reinsistence or significant aminotransferase elevations following discontinua-tion of therapy may warrant consideration of liver biopsy. Active liver disease or unexplained transaminase elevations are contraindications to the use of pravastatin (see CONTRAINDICATIONS). Caution should be exercised when pravastatin is administered to patients with a history of liver disease or heavy alcohol ingestion (see CLINICAL PHARMACOLOGY: Pharmacokinetics/Metabolism). Such patients should be closely monitored, started at the lower end of the recommended dosing range, and titrated to the desired therapeutic effect.

patients should be closely monifored, started at the lower end of the recommended dosing range, and titrated to the desired therapeutic effect.

Skeletal Muscle: Rhabdomyoysis with renal dysfunction secondary to myoglobinuria has been reported with pravastatin and other drugs in this class. Uncomplicated myslig has also been reported in pravastatin-treated patients (see ADVERSE REACTIONS). Myopathy, defined as muscle aching or muscle weakness in conjunction with increases in creatine phosphokinase (CPK) values to greater than 10 times the upper into normal was reported to be possibly due to pravastatin in only one patient in clinical trials (<0.1%). Myopathy should be considered in any patient with diffuse mysligas, muscle tendemess or weakness, and/or marked elevation of CPK. Patients should be advised to report promptly unexplained muscle pain, tendemess or weakness, particularly if accompanied by malaise or lever. Pravastatin therapy should be discontinued if markedly elevated CPK levels occur or myopathy is disgnosed or suspected. Pravastatin therapy should also be temporarily withheld in any patient experiencing an acute or serious condition predisposing to the development of renal failure secondary to inabdomyofysis, e.g., sepsis; hypotension; major surgery; trauma; severe metabolic, andocrine, or electrohyte disorders; or uncontrolled epilepsy.

The risk of myopathy during treatment with lovastatin is increased if therapy with either cyclosporine, efforcial, in a continuation of the properties of the development of renal failure secondary to habdomyofysis, e.g., sepsis; hypotension; major surgery; trauma; severe metabolic, andocrine, or electrohyte disorders; or uncontrolled epilepsy.

The risk of myopathy during treatment with lovastatin is increased if therapy with either cyclosporine, evidence in the controlled epilepsy.

The risk of myopathy during treatment with lovastatin is increased if therapy with either cyclosporine, evidence in the controlled epilepsy.

The risk of myopathy during treatment wi

of pravastatin and fibrates should generally be avoided.

PRECAUTIONS
General: Pravastatin may elevate creatine phosphokinase and transaminase levels (see ADVERSE REACTIONS).
This should be considered in the differential diagnosis of chest pain in a patient on therapy with pravastatin.

Homozygous Familial Hypercholesterolemia. In this group of patients, it has been reported that HMG-CoA reductase inhibitors are less effective because the patients lack functional LDI receptors.

Henal Insufficiency. A single 20 mg oral dose of pravastatin was administered to 24 patients with varying degrees of renal impairment (as determined by creatinine clearance). No effect was observed on the pharmacokinetics of pravastatin or its 3α-hydroxy isomeric metabolite (SQ 31) 996). A small increase was seen in mean AUC values and half-life (tV2) for the inactive enzymatic ring hydroxylation metabolite (SQ 31) 945). Given this small sample size, the dosage administered, and the degree of individual variability, patients with renal impairment who are reconstructed.

Information for Patients: Tatients should be advised to report promptly unexplained muscle pain, tenderness or weakness, particularly if accompanied by malaise or fever.

Information for Patients: Fatients should be durised to report profripty or explained mode part, convenies on weakness, particularly if accompanied by malaise or fever. **Drug Interactions:** Immunosuppressive Drugs, Gemfibrozil, Niacin (Nicotinic Acid), Erythromycin: See WARN-INGS: Skeletal Muscle.
Antipyrine: Clearance by the cytochrome P450 system was unaftered by concomitant administration of prav-

INGS: Skeletal Muscle.

Antipyrine: Clearance by the cytochrome P450 system was unaftered by concomitant administration of pravastatin. Since pravastatin does not appear to induce hepatic drug-metabolizing enzymes, it is not expected that any significant interaction of pravastatin with other drugs (e.g., phenytoin, quindine) metabolized by the cyto-home P450 system will occur.

Cholestyramine/Colestipot: Concomitant administration resulted in an approximately 40 to 50% decrease in the mean AUC of pravastatin. However, when pravastatin was administered 1 hour before or 4 hours after cholestyramine or 1 hour before colestipol and a standard meal, there was no clinically significant decrease in bio-availability to therapoutic effect. (See DCSAGE AND ADMINISTRATION. Concomitant Therapy.)

Warfarin: in a study involving 10 healthy male subjects given pravastatin and warfarin concomitant between the accommendation of the production of the p

Other Orugs: During clinical trials, no noticeable drug interactions were reported when PRAVACHOL was added to: diuretics, antihypertensives, digitalis, converting-enzyme inhibitors, calcium channel blockers, beta-blockers,

Endocrine Function: HMG-CoA reductase inhibitors interfere with cholesterol synthesis and lower circulating cholesterol levels and, as such, might theoretically blunt adrenal or gonadal steroid hormone production. Results clinical trials with pravastatin in males and post-menopausal females were inconsistent with regard to possible effects of the drug on basal steroid hormone levels. In a study of 21 males, the mean testosterone response to human chorionic gonadortopin was significantly reduced (p<0.004) after 16 weeks of treatment with 40 mg of pravastatin. However, the percentage of patients showing a ≥50% rise in plasma testosterone after human chorionic gonadotropin stimulation did not change significantly after therapy in these patients. The effects of HMG-CoA reductase inhibitors on spermatogenesis and fertility have not been studied in adequate numbers of patients. The effects, if any, of pravastatin on the pituitary-gonadal axis in pre-menopausal females are unknown. Patients treated with pravastatin who display clinical evidence of endocrine dysfunction should be evaluated appropriately. Caution should also be exercised if an HMG-CoA reductase inhibitor or other agent used to lower cholesteral levels is administered to patients also receiving other drugs (e.g., ketoconazole, spironolactone, cimetidine) that may diminish the levels or activity of steroid hormones.

CNS Toxicity: CNS vascular lesions, characterized by perivascular hemorrhage and edema and mononuclear cell ndocrine Function: HMG-CoA reductase inhibitors interfere with cholesterol synthesis and lower circulating

infiltration of perivascular spaces, were seen in dogs treated with pravastatin at a dose of 25 mg/kg/day, a dose that produced a plasma drug level about 50 times higher than the mean drug level in humans taking 40 mg/day. Similar CNS vascular lesions have been observed with several other drugs in this class.

A chemically similar drug in this class produced optic nerve degeneration (Wallerian degeneration of retinogeniculate fibers) in clinically normal dogs in a dose-dependent fashion starting at 60 mg/kg/day, a dose that produced mean plasma drug levels about 30 times higher than the mean drug level in humans taking the highest recommended dose (as measured by total enzyme inhibitory activity). This same drug also produced vestibulocochian Wallerian-like degeneration and retinal gangilion cell chromatolysis in dogs treated for 14 weeks at 180 mg/kg/day, a dose which resulted in a mean plasma drug level similar to that seen with the 60 mg/kg/dose. Carcinogenesis, Mutagenesis, Impairment of Fertility: In a 2-year study in rats fed pravastatin at doses of 10, 30, or 100 mg/kg body weight, there was an increased inodence of hepatocellular carcinomas in males at the highest dose (p-C0.01). Although rats were given up to 125 times the human dose (HD) on a mg/kg body weight basis, their serum drug levels were only 6 to 10 times higher than those measured in humans given 40 mg pravastatin as measured by AUC.

The oral administration of 10, 30, or 100 mg/kg (producing plasma drug levels approximately 0.5 to 5.0 times human drug levels at 40 mg) of pravastatin to mice for 22 months resulted in a statistically significant increase in the incidence of malignant lymphomas in treated females when all treatment groups were pooled and compared to controls (p<0.05). The incidence was not dose-related and male mice were not affected.

A chemically similar drug in this class was administered to mice for 72 weeks at 25, 100, and 400 mg/kg body weight, which resulted in mean serum drug levels approximately 3, 15, and 33 times hi

of these findings is unclear.

Pregnancy: Pregnancy Category X: See CONTRAINDICATIONS.

Salety in pregnant women has not been established. Pravastatin was not teratogenic in rats at doses up to 1000 mg/kg daily or in rabbits at doses of up to 50 mg/kg daily. These doses resulted in 20k (rabbit) or 240k (rat) the human exposure based on surface area (mg/meter?). However, in studies with another HMG-CoA reductase inhibitor, skeletal malformations were observed in rats and mice. PRAWACHOL (pravastatin sodium) should be administered to women of child-bearing potential only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the woman becomes pregnant white taking PRAWACHOL, it should be discontinued and the patient advised again as to the potential hazards to the fetus.

Nursing Mothers: A small amount of pravastatin is excreted in human breast milk. Because of the potential for serious adverse reactions in nursing infants, women taking PRAWACHOL should not nurse (see CONTRAIND/CATIONS).

Pediatric Use: Safety and effectiveness in individuals less than 18 years old have not been established. Hence.

Pediatric Use: Safety and effectiveness in individuals less than 18 years old have not been established. Hence, treatment in patients less than 18 years old is not recommended at this time. (See also PRECAUTIONS General.)

ADVERSE REACTIONS Pravastatin is generally well tolerated; adverse reactions have usually been mild and transient. In 4-month long placebo-controlled trials, 1.7% of pravastatin-treated patients and 1.2% of placebo-treated patients were disconplacebo-controlled trials, 1.7% of pravistation-freated patients and 1.2% of placebo-treated patients were discontinued from treatment because of adverse experiences attributed to study drug therapy; this difference was not statistically significant. In long-term studies, the most common reasons for discontinuation were asymptomatic serum transaminase increases and mild, non-specific gastrointestinal complaints. During clinical trials the overall incidence of adverse events in the elderly was not different from the incidence observed in younger patients. Adverse Clinical Events: All adverse clinical events (regardless of attribution) reported in more than 2% pravastation-treated patients in the placebo-controlled trials are identified in the table below, also shown are the percentages of patients in whom these medical events were believed to be related or possibly related to the drug:

	All Ever	nts %	Events Attributed	to Study Drug %
Body System/Event	Pravastatin (N = 900)	Placebo (N = 411)	Pravastatin (N = 900)	Placebo (N = 411)
Cardiovascular				
Cardiac Chest Pain	4.0	3.4	0.1	0.0
Dermatologic				
Rash	4.0*	1.1	1.3	0.9
Gastrointestinal				
Nausea/Vomiting	7.3	7,1	2.9	3.4
Diarrhea	6.2	5.6	2.0	1.9
Abdominal Pain	5.4	6.9	2.0	3.9
Constipation	4.0	7.1	2.4	5.1
Flatulence	3.3	3.6	2.7	3.4
Heartburn	2.9	1.9	2.0	0.7
General				•
Fatigue	3.8	3.4	1.9	1.0
Chest Pain	3.7	1.9	0.3	0.2
Influenza	2.4*	0.7	0.0	0.0
Musculoskeletal			*	0.0
Localized Pain	10.0	9.0	1.4	1.5
Myalgia	2.7	1.0	0.6	0.0
Nervous System			0.0	0.0
Headache	6.2	3.9	1.7*	0.2
Dizziness	3.3	3.2	1.0	0.5
Renal/Genitourinary	0.0	O.L	1.0	0.0
Urinary Abnormality	2.4	2.9	0.7	1.2
Respiratory	2		3.1	
Common Cold	7.0	6.3	0.0	0.0
Rhinitis	4.0	4.1	0.1	0.0
Cough	2.6	1.7	0.1	0.0

Statistically significantly different from placebo

*Statistically significantly different from piacebo. The following effects have been reported with drugs in this class:
**Skeleta!* myopathy, rhabdomyolysis.

**Neurological: dysfunction of certain cranial nerves (including alteration of taste, impairment of extra-ocular movement, facial paresis), ferrency, vertigo, memory loss, paresthesia, peripheral neuropathy, peripheral nerve palsy.
**Hypersensitivity Reactions: An apparent hypersensitivity syndrome has been reported rarely which has included one or more of the following features: anaphylaxis, angioederma, hemohylic anemia, positive ANA, ESH increase, arthritis, arthralgia, unticaria, asthenia, photosensitivity, fever, chills, flushing, malaise, dyspinea, toxic epidermal necrolysis, erytherma multiforme, including Stevens-Johnson syndrome.

Gastrointestinal:pancreatitis, hepatitis, including chronic active hepatitis, cholestatic jaundice, fatty change in liver, and, rarely, cirrhosis, furbinant hepatitis in ecrosis, and hepatoma, anorexia, vomiting.

Reproductive:gynecomastia, loss of libido, erectile dysfunction.

**Eye:* progression of calaracts (lens opacities), ophthalmoplegia.

Laboratory Test Ahnormalities: Increases in serum transaminase (ALT, AST) values and CPK have been observed (see WAFNINGS).

observed (see WARNINGS).

Transient, asymptomatic eosinophilia has been reported. Eosinophil counts usually returned to normal despite continued therapy. Anemia, thrombocytopenia, and leukopenia have been reported with other HMG-CoA reductase inhibitors.

Concomitant Therapy: Pravastatin has been administered concurrently with cholestyramine, colestipor, incidence of concurrently with consistency of common administration of the production of gentification therapy with lovastatin or pravastatin is not associated with greater reduction in LDL-cholesterol than that achieved with lovastatin or pravastatin alone. No adverse reactions unique to the combination with or without acute renal failure) have been reported when another HMG-CoA reductase inhibitor was used in combination with minumous uppressive drugs, gemitiozal, entythromycin, or ligid-lowering doses of nicotinic acid. Concomitant therapy with HMG-CoA reductase inhibitors and these agents is generally not recommended. (See WARNINGS: Skeletal Muscle and PRECAUTIONS: Drug Interactions.)

OVERDOSAGE
There have been no reports of overdoses with pravastatin.
Should an accidental overdose occur, treat symptomatically and institute supportive measures as required.

CARDIZEM® CD (diltiazem HCI) 120-, 180-, 240-, 300-mg Capsules



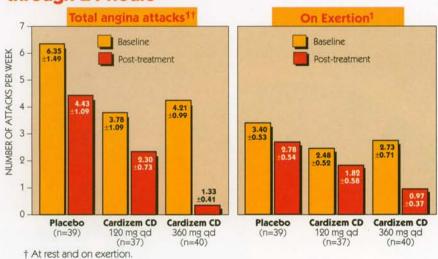
Please see brief summary of prescribing information on adjacent page. @1993, Marion Merrell Dow Inc.



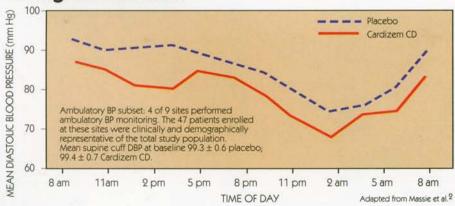
THE ONE CARDIZEM® CD (diltiazem HCl) 120-, 180-, 240-, 300-mg Capsules

PROVEN* 24-HOUR CONTROL OF BOTH ANGINA AND HYPERTENSION

Reduces the frequency of angina attacks through 24 hours¹



Consistent antihypertensive effect seen throughout 24 hours²



- Overall study results (127 patients) show a significant mean change at 24 hours in both diastolic (P=0.0075) and systolic (P=0.0009) blood pressure vs placebo²
- Cardizem CD average daily dose 268 mg/day

*Proven efficacy through 24-hour ambulatory blood pressure recording, peak/trough blood pressure evaluation, and Bruce treadmill protocol.

EXTREMELY WELL TOLERATED

CARDIZEM CD Placebo-Controlled Angina and Hypertension Trials Combined³

Adverse Reaction	Cardizem CD n=607	Placebo n=301		
Headache	5.4%	5.0%		
Dizziness	3.0%	3.0%		
Bradycardia	3.3%	1.3%		
AV Block First Degree	3.3%	0.0%		
Edema	2.6%	1.3%		
ECG Abnormality	1.6%	2.3%		
Asthenia	1.8%	1.7%		

In clinical trials of Cardizem CD capsules, Cardizem tablets, and Cardizem SR capsules involving over 3200 patients, the most common events (ie, greater than 1%) were edema (4.6%), headache (4.6%), dizziness (3.5%), asthenia (2.6%), first-degree AV block (2.4%), bradycardia (1.7%), flushing (1.4%), nausea (1.4%), and rash (1.2%).

LOWER PRICE

Based on average wholesale prices* using equivalent mg/day doses*:

- 35% lower cost than Cardizem® (diltiazem HCl) tablets for angina (Cardizem tablets are available as 30, 60, 90, and 120 mg)
- 25% lower cost than Cardizem® SR (diltiazem HCl) capsules for hypertension (Cardizem SR is available as 60-, 90-, and 120-mg capsules)

Please see brief summary of prescribing information on adjacent page. *Red Book Update. 1992;11(10):7.







ONCE-A-DAY CARDIZEM®

(diltiazem HCI) 120-, 180-, 240-, 300-mg Capsules

24-HOUR CONTROL OF BOTH ANGINA AND HYPERTENS

Brief Summary of ation as of October 1992 (2)

CARDIZEM® CD (diltiazem hydrochloride)

Brief Summary of

ation as of January 1991 CARDIZEM® SR

(diltiazem hydrochloride) Sustained Release Capsules

Brief Summary of

CARDIZEM® (diltiazem hydrochloride) Tablets

CONTRAINDICATIONS

CARDIZEM is contrained ated in (1) patients with sick sinus syndrome except in the presence of a functioning ventricular paceraker, (2) patients with second- or third-degree AV block except in the presence of a functioning ventricular paceraker, (3) patients with hypotension (less than 90 mm Hg systolic), (4) patients who have demonstrated hypersensitivity to the drug, and (5) patients with acute myocardial infarction and pulmonary congestion documented by x-ray on admission.

ARNINGS

Cardiac Conduction. CARDIZEM prolongs AV node refractory periods without significantly prolonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (13 of 3.290 patients or 0.40%). Concomitant use of difficazem with beta-blockers or digitals may result in additive effects or cardiac conduction. A patient with Prinzmett's agnital needeeped periods of asystole (2 to 5 seconds) after a single dose of 80 mg of tilitizaem.

Congestive Heart Failure. Although difficazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal vehriticular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dp/dt). An acute study of oral difficazem in patients with impaired ventricular function (epiction fraction 24% ± 6%) showed improvement in indices of ventricular function without significant decrease in contractile function (op/dt). Worsening of congestive heart failure has been reported in patients with preexisting impairment of ventricular function. Experience with the use of CARDIZEM (dilitazem hydrochloride) in combination with beta-blockers in patients with impaired ventricular function is limited. Caution should be exercised when using this combination. Decreases in look or experience with the supervision provided pressure associated with CARDIZEM (therapy may occasionally result in symptomatic hydrochlories) in

exercised when using this combination.

Hypotension. Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension.

Acute hepatic Injury. Mild elevations of transaminases with and without concomitant elevation in alkaline phosphatase and bilinubin have been observed in clinical studies. Such elevations were usually transient and frequently resolved even with continued diffiazem treatment. In rare instances, significant elevations in enzymes such as alkaline phosphatase, LDH, SGOT, SGPT, and other phenomena consistent with acute hepatic injury have been noted. These reactions tended to occur early after therapy initiation (1 to 8 weeks) and have been reversible upon discontinuation of drug therapy. The relationship to CARDIZEM is uncertain in some cases, but probable in some. (See PRECAUTIONS.)

General: CARIDIZEM (ditiazem hydrochloride) is extensively metabolized by the liver and excreted by the kidneys and in bile. As with any drug given over prolonged periods, laboratory parameters of renal and hepatic function should be monitored at regular intervals. The drug should be used with caution in patients with impaired renal or hepatic function. In subscute and chronic dog and rat studies designed to produce toxicity, high doses of diffiazem were associated with histological changes. In special subscute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes; however, these changes were reversible with respectively.

was discontinuou, in olog, doses or 20 mg/kg were also associated with neptatic changes; however, these chan reversible with continued dosting. Dermatological events (see ADVERSE REACTIONS section) may be transient and may disappear despite continued use of CARDIZEM. However, skin eruptions progressing to erythema multiforme and/or exfoliative diematitis have also been infrequently reported. Should a dermatologic reaction persist,

Drug Interactions. Due to the potential for additive effects, caution and careful titration pung imperactions, use to the potential or abotive effects, dation and careful intration are warranted in patients receiving CARDIZEM concernitantly with other agents known to affect cardiac contractifity and/or conduction. (See WARNINGS.) Pharmacologic studies indicate that there may be additive effects in protonging AV conduction when using beta-blockers or digitalis concomitantly with CARDIZEM. (See WARNINGS.)

As with all drugs, care should be exercised when treating patients with multiple medications. CARDIZEM undergoes biotransformation by cytochrome P-450 mixed function oxidase. Coadministration of CARDIZEM with

As with all drugs, care should be exercised when treating patients with multiple medications. CARDIZEM with undergoes biotransformation by cytochrome P-450 mixed function oxidase. Coadministration of CARDIZEM with other agents which follow the same route of biotransformation may result in the competitive inhibition of metabolism. Dosages of similarly metabolism drugs such as cyclosopion, particularly those of low therepatitic ratio or patients with rental and/or hepatic impairment, may require adjustment when starting or stopping concomitantly administrated CARDIZEM to maintain optimum therapeutic blood levels.

Beta-blockers: Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM and beta-blockers is usually well tolerated, but available data are not sufficient to predict the effects of concomitant treatment in patients with left ventricular dysfunction or cardiac conduction abnormalities.

Administration of CARDIZEM (diffuzem hydrochloride) concomitantly with propranolol in five normal volunteers resulted in increased propranolol levels in all subjects and bioavailability of propranolol is increased approximately 50%. It combination therapy is initiated or withforwan in conjunction with propranolol, an adjustment in the propranolol dose may be warranted. (See WARNINOS.)

Cimetilline: A study in six healthy volunteers has shown a significant increase in peak difficarem plasme levels (58%) and area-under-the curve (53%) after a 1-veek course of cimetidine at 1.200 mg per day and a single dose of difficarem for propranolor propranolor discontinuing therapy should be carefully monitored for a change in pharmacological effect when initiating and discontinuing therapy with crimetidine. An adjustment in the difficare may be wearisted by climetidine's known initiating and discontinuing therapy with cimetidine. An adjustment in the difficare may be unconsidered by climetidine's known initiating and discontinuing carefully monitored for a change in pharmacological effect when initiating a

Anesthetics: The depression of cardiac contractility, conductivity, and automaticity as well as the vascular dilation associated with anesthetics may be potentiated by calcium channel blockers. When used concomitantly, anesthetics and calcium blockers should be titrated carefully.

Carcinogenesis. Mutagenesis. Impairment of Fertility. A 24-month study in rats at oral dosage levels of up to 100 mg/kg/day, and a 21-month study in mice at oral dosage levels of up to 30 mg/kg/day showed no evidence of carcinogenicity. There was also no mutagenic response in vitro or in vivo in mammalian cell assays or in vitro in bacteria. No evidence of impaired fertility was observed in a study performed in male and female rats at oral dosages

occiera, no eviolence or imparere remainy was observed in a study performed in male and remaile rats at oral dosages of up to 100 mg/kg/day.

Pregnancy: Category C: Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging from five to len brines greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fatal elhelity! These doses, in some studies, have been reported to cause skeletal abmortalities in the perinatal/postnatal studies, there was an increased incidence of stillibirths at doses of 20 times the human dose or greater. perinatal/postnatal studies, there was an increased incidence or smooths at coses or 20 lines the numer cose or grown. There are no well-controlled studies in pregnant women; therefore, use CARDIZEM in pregnant women only if the potential benefit justifies the potential risk to the fetus. Available as Once-A-Day



120-mg capsules



180-mg capsules



240-mg capsules



300-mg capsules

Cardizem CD Start with one capsule daily

Nursing Mothers: Ollfiazem is excreted in human milk. One report suggests that concentrations in breast milk may approximate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should be instituted.

and effectiveness in children have not been established. Pediatric Use. Safety and ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded from these studies

excluded from these studies. In domestic placebo-controlled angina trials, the incidence of adverse reactions reported during CARDIZEM therapy was not greater than that reported during placebo therapy. The adverse events described below represent events observed in clinical studies of hyperfensive patients receiving either CARDIZEM Tables or CARDIZEM SR Capsules as well as experiences observed in studies of angina and during marketing. The most common events in hypertension studies are shown in a table with rates in placebo platents shown for comparison. Less common events are listed by abody system; these include any adverse reactions seen in angina studies that were not observed in hypertension studies. In all hypertensive patients taking CARDIZEM Tables or CARDIZEM SR Cancelles studied (new 900) the most common adverse events were advers a few. were into toserved in hyperensions causes, in all hyperensions gaining conductor adults or CARDIZEM SR Capsules studied (over 900), the most common adverse events were edema (9%), headache (8%), dzziness (6%), ashenia (5%), sinus bradycardia (3%), flushing (3%), and first-degree AV block (3%). Only edema and perhaps bradycardia and dizziness were dose related.

Adverse	Diltiazem N = 315 # pts (%)	Placebo N = 211 # pts (%)		
Headache AV Block First Degree Dizziness Edema Bradycardia ECG Abnormality Asthenia Constipation Dyspepsia Nausea Palpitations Pollyuria Somnolence Alk Phos Increase Hypotension Insomnia Rash AV Block Second Degree	38 (12%) 24 (7.6%) 19 (6%) 19 (6%) 13 (4.1%) 10 (3.2%) 4 (1.3%) 4 (1.3%) 4 (1.3%) 4 (1.3%) 3 (1%) 3 (1%) 3 (1%) 3 (1%) 3 (1%) 2 (65%)	17 (8%) 4 (1.9%) 6 (2.8%) 2 (0.9%) 3 (1.4%) 1 (0.5%) 2 (0.9%) 2 (0.9%) 2 (0.9%) 1 (0.5%) 1 (0.5%) 1 (0.5%) 1 (0.5%)		

The following table presents the most common adverse reactions reported in placebo-controlled angina and hyperfension trials in patients receiving CARDIZEM CD up to 360 mg with rates in placebo patients shown for comparison.

Adverse Reaction	CARDIZEM CD N = 607	Placebo N = 301
Headache	5.4%	5.0%
Dizziness	3.0%	3.0%
radycardia	3.3%	1.3%
V Block First Degree	3.3%	0.0%
dema	2.6%	1.3%
CG Abnormality	1.6%	2.3%
Asthenia	1.8%	1.7%

In clinical trials of CARDIZEM CD Capsules, CARDIZEM Tablets, and CARDIZEM SR Caps incurrent artists of CANDIZEM SE CASSURS, CANDIZEM 1401818, and CANDIZEM SE CASSURS involving over 2020 patients, the most common events (ie, greater than 1%) were edema (4.6%), headache (4.6%), dizziness (3.5%), asthenia (2.6%), first-degree AV block (2.4%), bradycardia (1.7%), flushing (1.4%), naussa (1.4%), and rash (1.2%).

Cardiovascular: Angina, arrhythmia, AV block (second- or third-degree), bundle branch block, congestive heart failure, ECG abnormalities, hypotension, palpitations, syncope, tachycardia, ventriouse extravstyteles.

Nervous System: Abnormal dreams, amnesia, depression, gait abnormality, hallucinations,

nervous system: Annormal oreanis, amnesis, operssion, garl annormality, nationalitors, inisomnia, nervousness, paresthesis, personality change, somnolinec, linnifus, termor Gastrointestinal: Anorexia, constipation, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGO1, SGP1, LDH, and alkalime phosphatase (see hepatic warnings), thirst, vornting, weight increase Dermatological: Petechiea, photoposensitivity, purrius, urticaria
Other: Amblyopia, CPK increase, dyspnea, epistaxis, eye irritation, hyperglycemia, hyperusicemia,

Other: Amblyopia. CPK increase, dyspinea, epistaxis, eye irritation, nypergrycemia, myperuncemia, impotence, muscle cramps, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties. The following postmarketing events have been reported infrequently in patients receiving CARDIZEM, alopecia, erytheria multilorme, exfoliative dermatitis, extrapyramidal symptoms, gingival hyperplasia, hemolytic nameria, increased bleeting time, leukopenia, purpura, eritornopaty, and thrombocytopenia in addition, events such as myocardial infraction have been observed which are not readily distinguishable from the natural history of the disease in these patients. A number of well-documented cases of generalized rash, characterized as leukocytociastic vascultifs, have been reported. However, a definitive cause and effect relationship between these events and CARDIZEM therapy is yet to be established. CARDIZEM® CD CARDIZEM"

Prescribing Information as of October 1992 (2)

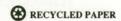
Prescribing Information as of January 1991

CARDIZEM® SR Prescribing Information as of January 1991

Marion Merrell Dow Inc. Kansas City, Missouri 64114

References: 1. Data on file, Marion Merrell Dow Inc. 2. Massie BM, Der E, Herman TS, Topolski P, Park GD, Stewart WH. Clin Cardiol. 1992;15:365-368. Cardizem CD prescribing information. 4. Red Book Update. 1992;





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Gastrointestinal

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Genitourinary

Urinary Infections STD's and AIDS Prostate Problems **Urinary Stones** Renal Failure

Endocrine

Diabetes Mellitus Thyroid Diseases Parathyroid & Adrenal Osteoporosis

Neurologic

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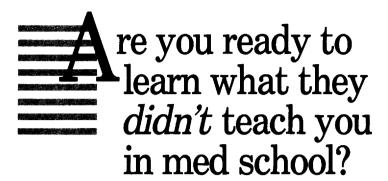
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NAPROSYN

Brief Summary:

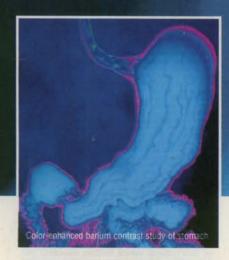
Contraindiculons. Patients who have had allergic reactions to NAPROSYM, ANAPROX or ANAPROX DS or in whom aspirin or other NSAIDs induce the syndrome of astima, rhinds, and nasal polyps Because anaphylactic reactions usually occur in patients or the property of the prope

Incidence of reported reaction 3%-9%
Where unmarked, incidence less than 3%

U.S. patent nos. 3,904,682, 3,998,966 and others © 1991 Syntex Puerto Rico, Inc. Rev. 39 Rev. 39 September 1990



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Color-enhanced 3-D MRI of OA knee with medial compartment narrowing and anterior osteophytes in red. Supplied by David W. Stoller, MD, of California Advanced Imaging.

A proven efficacy and safety profile backed by 16 years of clinical success.

As with other NSAIDs, the most frequent complaints are gastrointestinal, and rare hepatic and renal reactions have been reported.

Please see brief summary of prescribing information on adjacent page.

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*Leading industry audits for 12 months ending April 1992. Pharmacy sales of Naprosyn (naproxen) in the U.S. Data on file, Syntex Laboratories, Inc, Document NP92181-A.



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®

Nasal
Inhaler

(triamcinolone acetonide)

Turns patient complaints...Into patient compliance

Please see brief summary of prescribing information on adjacent page.





For Intranasal Use Only Shake Well Before Using

BRIEF SUMMARY

CONTRAINDICATIONS: Hypersensitivity to any of the ingredients of this preparation

WARNINGS: The replacement of a systemic corticosteroid with a topical corticoid can be accompanied by signs of adrenal insufficiency and, in addition, some patients may experience symptoms of withdrawal, e.g., joint and/or muscular pain, lassitude and depression. Patients previously treated for prolonged periods with systemic corticosteroids and transferred to topical corticoids should be carefully monitored for acute adrenal insufficiency in response to stress. In those patients who have asthma or other clinical conditions requiring long-term systemic corticosteroid treatment, too rapid a decrease in systemic corticosteroids may cause a severe exacerbation of their symptoms.

Children who are on immunosuppressant drugs are more susceptible to infections than healthy children. Chickenpox and measles, for example, can have a more serious or even fatal course in children on immunosuppressant doses of corticosteroids. In such children, or in adults who have not had these diseases, particular care should be taken to avoid exposure. If exposed, therapy with varicella zoster immune globulin (VZIG) or pooled intravenous immunoglobulin (IVIG) as appropriate, may be indicated. If chickenpox develops, treatment with antiviral agents may be considered.

The use of Nasacort Nasal Inhaler with alternate-day systemic prednisone could increase the likelihood of hypothalamic-pituitary-adrenal (HPA) suppression compared to a therapeutic dose of either one alone. Therefore, Nasacort Nasal Inhaler should be used with caution in patients already receiving alternate-day prednisone treatment for any disease.

General: In clinical studies with triamcinolone acetonide administered intranasally, the development of localized infections of the nose and pharyns with Candida albicans has rarely occurred. When such an infection develops it may require treatment with appropriate local therapy and discontinuance of treatment with Nasacort Nasal Inhaler.

Triamcinolone acetonide administered intransally has been shown to be absorbed into the systemic circulation in humans. Patients with active rhinitis showed absorption similar to that found in normal volunteers. Nasacort at 440 mcg/day for 42 days did not measurably affect adrenal response to a six hour cosyntropin test. In the same study prednisone 10 mg/day significantly reduced adrenal response to ACTH over the same period (see CLINICAL TRIALS section).

Nasacort Nasal Inhaler should be used with caution, if at all, in patients with active or quiescent tuberculous infections of the respiratory tract or in patients with untreated fungal, bacterial, or systemic viral infections or ocular herpes simplex.

Because of the inhibitory effect of corticosteroids on wound healing in patients who have experienced recent nasal septal ulcers, nasal surgery or trauma, a corticosteroid should be used with caution until healing has occurred.

When used at excessive doses, systemic corticosteroid effects such as hypercorticism and adrenal suppression may appear. If such changes occur, Nasacort Nasal Inhaler should be discontinued slowly, consistent with accepted procedures for discontinuing oral steroid therapy. Information for Patients: Patients being treated with Nasacort Nasal Inhaler should receive the following information and instructions.

Patients who are on immunosuppressant doses of corticosteroids should be warned to avoid exposure to chickenpox or measles and, if exposed, to obtain medical advice.

exposure to chickenpox or measies and, if exposed, to obtain medical advice. Patients should use Nasacort Nasal Inhaler at regular intervals since its effectiveness depends on its regular use. A decrease in symptoms may occur as soon as 12 hours after starting steroid therapy and generally can be expected to occur within a few days of initiating therapy in allergic rhinitis. The patient should take the medication as directed and should not exceed the prescribed dosage. The patient should contact the physician if symptoms do not improve after three weeks, or if the condition worsens. Nasal irritation and/or burning or stringing after use of the spray occur only rarely with this product. The patient should contact the physician if they occur.

For the proper use of this unit and to attain maximum improvement, the patient should read and follow the accompanying patient instructions carefully. Because the amount dispensed per puff may not be consistent, it is important to shake the canister well. Also, the canister should be discarded after 100 actuations.

discarded after 100 actuations.

Carcinogenesis, Mutagenesis: Animal studies of triamcinolone acetonide to test its carcinogenic potential are underway.

Impairment of Fertility: Male and female rats which were administered oral triamcinolone acetonide at doses as high as 15 mcg/kg/day (110 mcg/m²/day, as calculated on a surface area basis) exhibited no evidence of impaired fertility. The maximum human dose, for comparison, is 6.3 mcg/kg/day (240 mcg/m²/day). However, a few female rats which received maternally toxic doses of 8 or 15 mcg/kg/day (60 mcg/m²/day) or 110 mcg/m²/day, respectively, as calculated on a surface area basis) exhibited dystocia and prolonged delivery.

Developmental toxicity, which included increases in fetal resorptions and stillbirths and decreases in pup body weight and survival, also occurred at the maternally toxic doses (2.5 - 15.0 mcg/kg/day or 20 - 110 mcg/m²/day, as calculated on a surface area basis). Reproductive performance of female ratis and effects on fetuses and offspring were comparable between groups that received placebo and non-toxic or marginally toxic doses (0.5 and 1.0 mcg/kg/day or 3.8 mcg/m²/day and 7.0 mcg/m²/day).

kg/day or 3.8 mcg/m²/day and 7.0 mcg/m²/day).

Pregnancy: Pregnancy Category C. Like other corticoids, triamcinolone acetonide has been shown to be teratogenic in rats and rabbits. Teratogenic effects, which occurred in both species at 0.02, 0.04 and 0.08 mg/kg/day (approximately 135, 270 and 540 mcg/m²/day in the rat and 320, 640 and 1280 mcg/m²/day in the rat bard as calculated on a surface area basis, included a low incidence of cleft palate and/or internal hydrocephaly and axial skeletal defects. Teratogenic effects, including CNS and cranial malformations, have also been observed in non-human primates at 0.5 mg/kg/day used in these toxicology studies are approximately 12.8, 25.5, 51, and 318.7 times the minimum recommended dose of 110 mcg of Nasacort per day and 3.2, 64, 12.7, and 80 times the maximum recommended dose of 440 mcg of Nasacort per day adaed on a patient body weight of 70 kg. Administration of aerosol by inhalation to pregnant rats and rabbits produced embryotoxic and fetotoxic effects which were comparable to those produced by administration by other routes. There are no adequate and well-controlled studies in repgnant women. Triamcinolone acetonide should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Experience with oral corticoids since their introduction in pharmacologic as opposed to physiologic doses suggests that rodents are more prone to teratogenic effects from corticoids than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy, most women will require a lower exogenous steroid dose and many will not need corticoid treatment during pregnancy.

Nonteratogenic Effects: Hypoadrenalism may occur in infants born of mothers receiving corticosteroids during pregnancy. Such infants should be carefully observed.

Nursing Mothers: It is not known whether triamcinolone acetonide is excreted in human milk Because other corticosteroids are excreted in human milk, caution should be exercised when Nasacort Nasal Inhaler is administered to nursing women.

Pediatric Use: Safety and effectiveness have not been established in children below the age of 12. Oral corticoids have been shown to cause growth suppression in children and teenagers, particularly with higher doses over extended periods. If a child or teenager on any corticoid appears to have growth suppression, the possibility that they are particularly sensitive to this effect of steroids should be considered.

effect of steroids should be considered.

ADVERSE REACTIONS: In controlled and uncontrolled studies, 1257 patients received treatment with intransal triamcinolone acetonide. Adverse reactions are based on the 567 patients who received a product similar to the marketed Nasacort canister. These patients were treated for an average of 48 days (range 1 to 117 days). The 145 patients enrolled in uncontrolled studies received treatment from 1 to 820 days (average 332 days).

The most prevalent adverse experience was headache, being reported by approximately 18% of the patients who received Nasacort. Nasal irritation was reported by 2.6% of the patients receiving Nasacort. Other nasopharyngeal side effects were reported by fewer than 5% of the patients who received Nasacort and included: dry mucous membranes, naso-sinus congestion, throat discomfort, sneezing, and epistaxis. The complaints do not usually interfere with treatment and in the controlled and uncontrolled studies approximately 1% of patients have discontinued because of these nasal adverse effects.

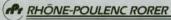
In the event of accidental overdose, an increased potential for these adverse experiences may be expected, but systemic adverse experiences are unlikely (see OVERDOSAGE section).

OVERDOSAGE: Acute overdosage with this dosage form is unlikely. The acute topical application of the entire 15 mg of the canister would most likely cause nasal irritation and headache. It would be unlikely to see acute systemic adverse effects if the nasal application of the 15 mg of triamcinolone acetonide was administered all at once.

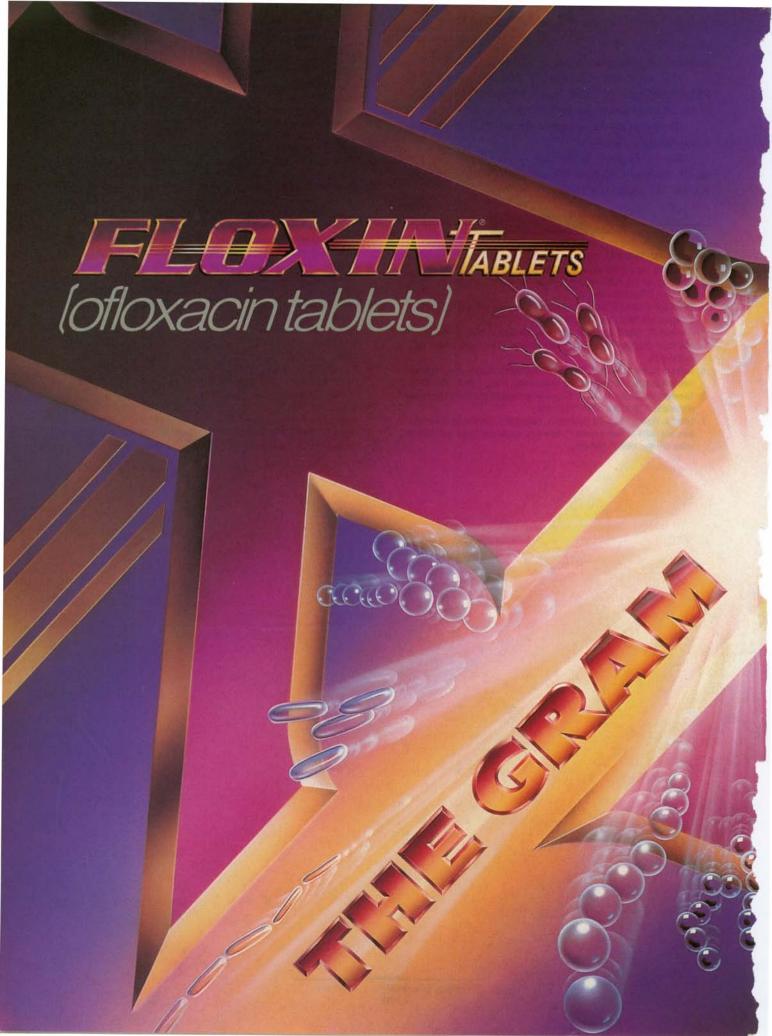
Caution: Federal (U.S.A.) law prohibits dispensing without prescription.

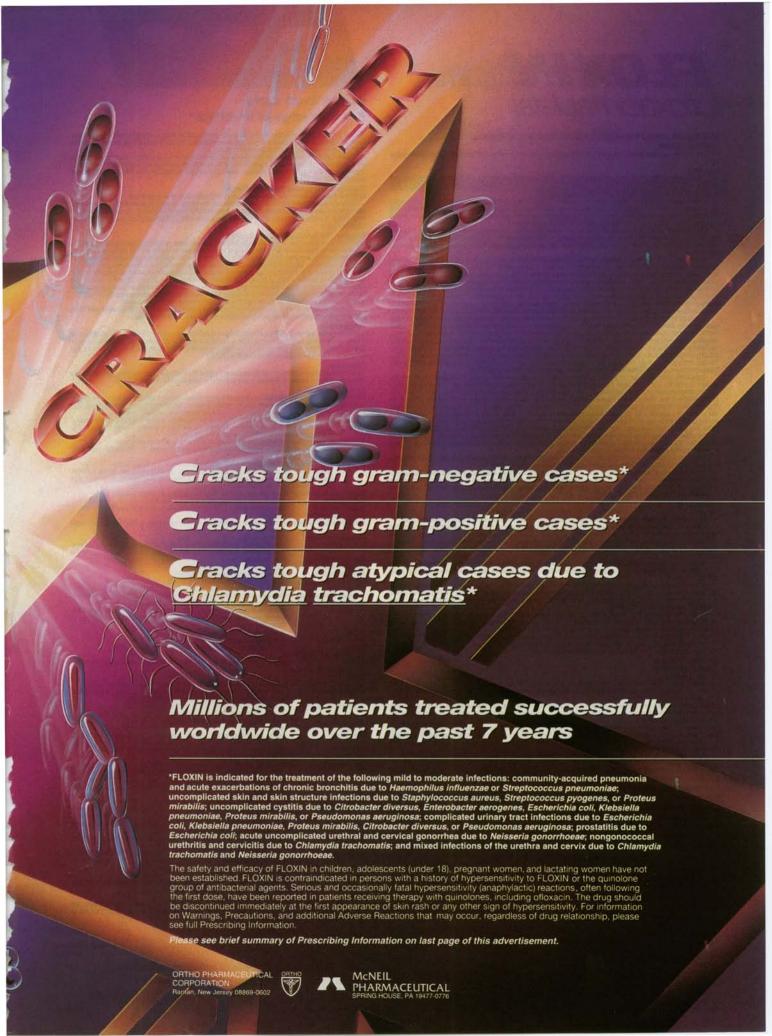
Please see product circular for full prescribing information.

REFERENCES: 1. Winder J, Barker J, Bell T, et al: Intranasal triamcinolone acetonide aerosol versus beclomethasone dipropionate aqueous spray in perennial altergic rhinitis. *Medical Interface* 1992;5(6, suppl):16. 2. Data on file, Rhône-Poulenc Rorer Pharmaceuticals Inc. 3. Findlay S, Hubber F, Garcia J, et al: Efficacy of noce-a-day intranasal administration of triamcinolone acetonide in patients with seasonal altergic rhinitis. *Ann Allergy* 1992;68(3):228-232. 4. Storms W, Bronsky E, Findlay S, et al: Once daily triamcinolone acetonide nasal spray is effective for the treatment of perennial altergic rhinitis. *Ann Allergy* 1991;66(4):329-334. 5. Feiss G, Morris R, Rom D, et al: A comparative study of the effects of intranasal triamcinolone acetonide aerosol (ITAA) and prednisone on adrenocortical function. *J Allergy Clin Immunol* 1992;89(6):1151-1156.



RHONE-POULENC RORER PHARMACEUTICALS INC.







BRIEF SUMMARY, CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION.

CONTRAINDICATIONS
Officeacin is contraindicated in persons with a history of hypersensitivity to officeacin or members of the quincione group of antimicrobial

agents.

WARNINGS

THE SAFETY AND EFFICACY OF OFLOXACIN IN CHILDREN, ADOLESCENTS (UNDER THE AGE OF 18 YEARS), PREGNANT
WOMEN, AND LACTATING WOMEN HAVE NOT BEEN ESTABLISHED, ISEE PEDIATRIC USE, USE IN PREGNANCY, AND
NURSING MOTHERS SUBSECTIONS IN THE PRECAUTIONS SECTION.)

In he immalure rat, the oral administration of olfoxora on at 5 to 16 times the recommended maximum human dose based on mg/lir or 1-3 times based on mg/lir increased the incidence and severity of osteochordronss. The lesions did not regress after 13 weeks of drug
withdrawal. Other quinolones also produce smaler erosions in the weight-bearing joints and other signs of arthropathy in immature animals of various species. (See ANIMAL PHARIMACOLOGY in full prescribing information.)

Ofloxacin has not been shown to be effective in the treatment of syphilis. Antimicrobial agents used in high doses reproduced the symptomy of incubating syphilis. All patients with gonomies alsould have a serologic test for syphilis at the time of diagnosis. Patients treated with ofloxacin should have a follow-up serologic test for syphilis after three months.

periods of time to treat gonorrhea may mask or delay the symptions of incubating syphilis. All patients with gonorrhea should have a serologic test for syphilis at the time of diagnoses. Patients treated with oflowacin should have a follow-up serologic test for syphilis at the time of diagnoses. Patients treated with oflowacin should have a follow-up serologic test for syphilis at the time of the court following the first dose. Some reactions were accompanied by cardiovascular collapse, hypotension/shock, sexicure, loss of consciousness, finging, angiodemic including floraging and relative collapse. All the properties of the court following the first dose. Some reactions were accompanied by cardiovascular, sching, and other serious skin reactions. A few plaints had a history of hypersensitivity reactions range including floraging, and the delay of the discontinued immediately at the first appearance of a skin rash or any other sign of hypersensitivity. Reactions from the require treatment with epreparities and other resultative measures, including onyone, inflavenous floraging sanities are conceptable of the properties of the pr

PRECAUTIONS General

PRECAUTIONS
General:

Adequate hydration of patients receiving ofloxacin should be maintained to prevent the formation of a highly concentrated urine.

Administer ofloxacin with caution in the presence of renal or hepatic insufficiency/impairment. In patients with known or suspected renal or hepatic insufficiency/impairment. In patients with known or suspected renal or hepatic insufficiency/impairment. In patients with known or suspected renal or hepatic insufficiency/impairment. In patients with known or suspected prior to and during therapy since elimination of ofloxacin may be reduced. In patients with impaired renal function (creatinitie clearance <50 mg/ml.), alteration of the dosage regimen is necessary. [See CLINICAL PHARINACOLOGY and DOSAGE AND ADMINISTRATION in rule prescribing information.)

Moderate to severe phototoxicity reactions have been observed in patients exposed to direct sunlight while receiving some drugs in this class, including offorcacin. Excessive sunlight should be avoided. Therapy should be discontinued if phototoxicity (e.g., a skin eruption, etc.) occurs.

As with all quinolones, ofloxacin should be used with caution in any patient with a known or suspected CNS disorder that may predispose to seizures or lower the seizure threshold (e.g., certain drug therapy, renal dystunction, etc.), [See: WARNINGS and DRUG INTERACTIONS.)

As with all quinolones, disturbances of blood glucose, including symptomatic hyper- and hypoglycemia, have been reported, usually in diabetic patients receiving concomitant treatment with an oral hypoglycemic agent (e.g., gyboundedjibenclamide, etc.) or with insulin. In these patients careful monitoring of blood glucose is recommended. It is hypoglycemic reaction occurs in aplatent being treatwind with officiacin, discontinue officiacin immediately and consult a physiciacin. (See DMUG INTERACTIONS.)

As with any potent drug, periodic assessment of organ system functions, including renal, hepatic, and hematopoietic, is advisable during prologed therapy. (See WAR

Information for Patients
Patients should be advised
to drink fluids liberally.

- to drink fluids liberally.

- that mineral supplements, vitamins with iron or minerals, calcium-, aluminum- or magnesium-based antacids or sucraitate should not be taken within the two-hour period after taking offloxacin. (See DRUG INTERACTIONS.)

- that ofloxacin should not be taken with lood.

- that ofloxacin should not be taken with lood.

- that ofloxacin may cause neurologic adverse effects (e.g., dizziness, lightheadedness, etc.) and that patients should know how they react to offloxacin before they operate an automobile or machinery or engage in activities requiring mental alertness and coordination.

| See WARNINGS and ADVERSE REACTIONS.|

- that offloxacin may be associated with hypersensitivity reactions, even following the first dose, to discontinue the drug at the first sign of a skin rash, these or other skin reactions, a rapid hearbeat, difficulty in swallowing or breathing, any swelling suggesting angiodedus (e.g., swelling of the lips, tongue, face, lightness of the throat, houseness, etc.), or any other symptom of an allergic reaction. (See WARNINGS and ADVERSE REACTIONS.)

to avoid excessive sunlight or artificial ultraviolet light while receiving officeacin and to discontinue therapy if phototoxicity (e.g., skin

eruption, etc.) occurs

- that if they are diabetic and are being treated with insulin or an oral hypoglycemic drug, to discontinue ofloracin immediately if a
hypoglycemic reaction occurs and consult a physician. (See PRECAUTIONS: General and DRUG INTERACTIONS.)

hypoglycemic reaction occurs and consult a physician. (See PRECAUTIONS: General and DRUG INTERACTIONS.)

Drug Interactions
Administration of quinolones with antacids containing calcium, magnesium, or aluminum, with sucraflate, with divalent or trivalent calcium. Administration of quinolones with antacids containing calcium, magnesium, or aluminum, with sucraflate, with divalent or trivalent calcium, such as irror, or with multivitamins containing rac may substantially interfere with the absorption of quinolones resulting in systemic levels considerably lower than desired. These agents should not be taken within the two-hour period before or within the two-hour period after olloxania administration. (See DOSAGE AND ADMINISTRATION in full prescribing information.)

Caffeire: Interactions between ofloxacia and caffeine have not been detected.

Caffeire: Interactions between ofloxacia and caffeine have not been detected. Celevistic in the control of the co

See other DRUG INTERACTIONS.)

Non-steroidal anti-inflammatory drugs: The concomitant administration of a non-steroidal anti-inflammatory drug, with a quincione, including dioxacin, may increase the risk of CNS stimulation and convulsive seizures. [See WARNINGS and PRECAUTIONS: General.)

Probenicor. The concomitant use of probenicor with certain other quinciones has been reported to affect renal tubular secretion. The effect of probenicor of the leimination of officera has not been studied.

Theophylline. Although concurrent administration of some quinciones with theophylline may result in impaired elimination of theophylline he extent of such impairment viriase samong different quinciones. Stady-state theophylline levels may increase when officerand interpretations and theophylline are administered concurrently. In a pharmacokinetic study involving [5 healthy male subjects, steady-state peak theophylline concentration increased by an average of approximately 13% and the AUC increased by an average of parameter [3] when oral officiacin and theophylline were administered concurrently. In clinical trials with intravenous officiacin in 41 patients who were treated with both drugs. In 38 patients, no apparent elevation in the serum theophylline was discernible. Marginal increases above the theophylline treated with both drugs. In 38 patients, no apparent elevation in the serum theophylline was discernible. Marginal increases above the theophylline treated with both drugs. In 38 patients, no apparent elevation in the serum theophylline was discernible. Marginal increases above the theophylline treated are a were reported in these patients, clinical trials of the intravenous was more frequently than those patients not receiving theophylline. As with some durinous, concomitant administration of dioxacin may protong the hall-life of theophylline diverse a member the rest of theophylline related adverse reactions. Theophylline levels should be closely monitored and theophylline dosage adjustments made, if appropriate,



Cracks tough cases in a wide range of infections*

Warfarin: Some quinolones have been reported to enhance the effects of the oral anticoagulant warfarin or its derivatives. Therefore, if a quinolone antimicrobial is administered concomitantly with warfarin or its derivatives, the profit or time or other suitable coagulation test should be closely monitored. Andidabete Agents (e.g., insuin, gybrundes/githendamide, etc.): Since disturbances of blood glucose, including hyperglycemia and hypogycemia, have been reported in patients treated concurrently with quinolones and an antidiabetic agent, careful monitoring of blood glucose is recommended when these agents are used concomitantly (See PRECAUTIORS: General and Information for Patients.)

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Long-term studies to determine the carcinogenic potential of ofloxacin have not been conducted.

Ofloxacin was not mutagenic in the Ames bacterial test, in vitro and in vivo cytogenetic assay, sister chromatid exchange (Chinese Hamster and Human Cell Lines), unscheduled DNA Repair (IUS) using human floroblasts, dominant lethal assays, or mouse micronucleus assay. Ofloxacin was positive in the UDS test using rat hepatocytes and Mouse Lymphoma Assay.

Lymphorna Assay.

Pregnancy: Teratogenic Effects. Pregnancy Category C.

Offoxacin has not been shown to have any teratogenic effects at oral doses as high as 810 mg/kg/day (11 times the recommended maximum human dose based on mg/m or 50 times based on mg/kg) and 160 mg/kg/day (4 times the recommended maximum human dose based on mg/m or 50 times based on mg/kg) when administered to pregnant hat sand rabbits, respectively. Additional studies in rats with oral doses up to 360 mg/kg/day (5 times the recommended maximum human dose based on mg/m? or 25 times based on mg/m or 35 times based on mg/kg, and the state of the state

Nursing Mothers:
In lactating females, a single oral 200-mg dose of ofloxacin resulted in concentrations of ofloxacin in milk that were similar to those found in plasma. Because of the potential for serious adverse reactions from ofloxacin in nursing infants, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother, (See WARNINGS and ADVERSE REACTIONS.)

Pediatric Use:
Safety and effectiveness in children and adolescents below the age of 18 years have not been established. Officiacin causes arthropathy (arthrosis) and osteochondrosis in juvenile animals of several species. (See WARNINGS.)

ADVERSE REACTIONS

ADVERSE REACTIONS

The lollowing is a compilation of the data for ofloxacin based on clinical experience with both the oral and intravenous formulations. The incidence of drug-related adverse reactions in patients during Phase 2 and 3 clinical trials was 11%. Among patients receiving multiple dose therapy, 4% discontinued ofloxacin due to adverse experiences, in clinical trials, the following events were considered likely to be drug-related in patients receiving multiple doses of ofloxacin ... assess 3%, somenia 3%, headsoch 1%, dizziness 1%, darbare 1%, comiting 1%, resthing 1%, res

Musculoskeletal System: Nervous System:

Nutritional/Metabolic: Respiratory System: Skin/Hypersensitivity: Special Senses: Urnary System: The following laboratory abnom whether these abnormalities we Hematopoietic:

stem: burning, irritation, pain and rash of the female genitalia; dysmenorrhea; menorrhagia; metrorrhagia; metrorrhagia; myalgia grayloga, cognitive change, depression, dream abnormality, euphoria, hallucinations, pareshlesia, syncope, vertigo, tremor, confusion thinst, weight loss respiratory arrest, cough; rhinorrhea angioedema, diaphoresis, urlicaria, vasculitis decreased hearing aculy, tinnitus, photophobia dysuria, urinary frequency, urinary retention dysuria, urinary frequency, urinary retention abnormalities appeared in > 1.0% of patients receiving multiple doses of officiacin. It is not known lites were caused by the drug or the underlying conditions being treated.

anemia, leukopenia, leukocytosis, neutropenia, neutrophilla, increased band forms, hymphocytopenia, esonophilla, lymphocytosis, therefore/openia, thrombocytosis, elevated ESR elevated talkaline chosohatase. AST (SGOT). ALT (SGPT)

evated ESH elevated: alkaline phosphatase, AST (SGOT), ALT (SGPT) hyperglycemia, hypoglycemia, elevated creatinine, elevated BUN glucosuria, proteinuria, alkalinuria, hyposthenuria, hematuria, pyuria Hepatic: Serum chemistry:

Serum cnemosy:

Glicosuria, proteinuria, alkalinuna, nyposamentaria, incomenda del proteinuria, alkalinuna, nyposamentaria, incomenda proteinuria, incomenda pr

cerebral thrombosis, pulmonary edema, tachycardia, hypotension/shock, syncope hyper- or hypoglycemia, especially in diabelic patients on insulin or oral hypoglycemic agents (See PRECAUTIONS: General and DRUG INTERACTIONS:) hepatic dysfunction including: hepatic necrosis, jaundice (cholestatic or hepatocellular), hepatifis; intestinal perforation; pseudomembranous colitis, GI hemorrhage; hiccough, painful oral murosa, pryosis (See WARNINGS).
vaginal candidiasis
agenta, including hemoritan and adjectir; hemorrhage, pseudomenia agranulocatesis.

Genital/Reproductive System

Musculoskeletal: Nervous System:

vaginal candidiasis anemia, including hemolytic and aplastic; hemorrhage, pancytopenia, agranulocytosis, leukopenia, reversibile bone marrow depression, thrombocytopenia, thrombotic thrombocytopenic purpura, petechiae, ecchymossibrusing (See WARNINGS) tradinthis/rupura; weakness nightmares; suicidal thoughts or acts, discorientation, psychotic reactions, paranoia; probiae, aglation, restlessness, aggressiveness/hostility, manic reaction, emotional lability, peripheral neuropathy, ataxia, incoordination; possible exacerbation of myasthenia gravia and extravyamidial disorders; dysphasia, lightheadedness (See WARNINGS and PRECAUTIONS).

Respiratory System: Skin/Hypersensitivity:

PRECAUTIONS.]
dyspnea, bronchospasm, allergic pneumonilis, stridor (See WARNINGS.)
anaphylactic (-loid) reactions/shock, purpura, serum sickness, erythema multiforme/
Steveris-Johnson syndrome, erythema nodosum, exfoliative dermatilis, hyperpigmentation, toxic epidemia necroysis, conjunctivitis, photosenshitivity, vesculdoullous eruption
(See WARNINGS and PRECAUTIONS.)
dipolora, nystagmus, blurred vision, disturbances of taste, smell, hearing and equilibrium,
usually reversible following discontinuation
anuria, polyuria, renat calculii, renal failure, interstitial nephritis, hematuria (See WARNINGS and PRECAUTIONS.)

Special Senses

Urinary System:

Laboratory: Hematopoietic: Serum chemist

Laboratory.
Hematopoetic:
Serum chemistry.

Serum chemistry.

Urinary:
In clinical trials using multiple-dose therapy, ophthalmologic abnormalities, including cataracts and multiple punctate lenticular opacities, have been noted in patients undergoing treatment with other quinclones. The relationship of the drugs to these auestic is not presently established.

to these events is not presently established.
CRYSTALLURIA and CYLINDRURIA HAVE BEEN REPORTED with other quinolones. Caution: Federal (U.S.A.) law prohibits dispensing without prescription.

@ OPC 1987 Revised December 1992 633-10-270-7

FLOXIN* is a trademark of Ortho Pharmaceutical Corporation. U.S. Patent No. 4.382.892 * Due to susceptible strains of indicated pathogens.

ORTHO PHARMACEUTICAL CORPORATION Raritan, NJ USA 08869



G0046 April 1993

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¹ Data on file, Knoll Pharmaceutical Company ² Standard industry new prescription audit.

^{*(}hydrocodone bitartrate 5mg [Warning: May be habit forming] and acetaminophen 500 mg)



INDICATIONS AND USAGE: For the relief of moderate to moderately severe pain. CONTRAINDICATIONS: Hypersensitivity to acetaminophen of hydrocodone. WARNINGS: Respiratory Depression: At high doses or in sensitive patients, bydrocodone may produce dose-related respiratory depression flead Injury and Increased Intracranial Pressure: The respiratory depressant effects of narcotics and their capacity to elevate cerebrospinal fluid pressure may be markedly exaggerated in the presence of head injury, other intracranial lesions or a previsiting increase in intracranial pressure. Furthermore, narcotics produce adverse reactions which may obscure the clinical course of patients with acid and advantage of the control of the patients of the control of the control of the patients with patients. The administration of narcotics may obscure the displayous or clinical course of patients with acid and advantage of the patients. The administration of narcotics may obscure the clinical course of patients with patients with purposition of the patients of the patients of the patients of the patients with purpositions. PRECAUTIONS: Special Risk Patients: VICCODIN/VICCODIN PS Sables should be used with caused in a patient of the patients of the patient

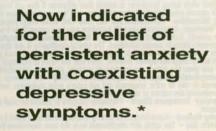
Knoll Pharmaceutical Company 30 North Jefferson Road Whippany, New Jersey 07981



BECAUSE APPROXIMATELY 60% OF PATIENTS WITH PERSISTENT ANXIETY MAY EXHIBIT DEPRESSIVE SYMPTOMS...¹

BuSpar 10mg

(buspirone HCl)



- ▲ Anxiolytic efficacy demonstrated in anxious patients with or without coexisting depressive symptoms.²
- ▲ Relief of anxiety symptoms begins within 1 week, progresses steadily through the fourth week of therapy.³
- ▲ Nonaddictive, no more sedation (10%) than seen with placebo (9%).^{4,5}
- ▲ The more commonly observed untoward events include dizziness (12%), nausea (8%), headache (6%), and nervousness (5%).

Progressive
Relief of
Persistent
Anxiety.

BuSpar' (buspirone HCI)

its on file. Bristof-Myers Squibb Company. 2. Cohn. 38, Bowden CL, Fisher JG. Rodos JJ. Double-blind comparison of buspirone and us outpatients with or without depressive symptoms. Psychopathology. 1992;25:10-21. 3. Feightner JP, Cohn. JB. Analysis of Individual literal anothy— a pooled, multistudy, double-blind evaluation of buspirone. Neuropsychobiology. 1989;21:124-130. 4. Lader M. list for buspirone dependence or abuse and effects of the withbrasel. Am J Med. 1987;8(s):epp. 1942;0-26. 5. Newton RE, Marunyez JD, listio MJ. Review of the side-effect profile of buspirone. Am J Med. 1986;80(suppl 38):17-21.

Contraindications: Hypersensitivity to buspirone hydrochloride.

Warnings: The administration of BuSpar to a patient taking a monoamine oxidase inhibitor (MAOI)
may pose a hazard. Since blood pressure has become elevated when BuSpar was administered concomitantly with an MAOI, such concomitant use is not recommended. BuSpar should not be employed in

warnings: The administration of BuSpar to a patient taking a monoamine oxidase inhibitor (MAOI) may pose a hazard. Since blood pressure has become elevated when BuSpar was administered concomitantly with an MAOI, such concomitant use is not recommended. BuSpar should not be employed in lieu of appropriate antipsychotic treatment.

Precautions: General – Interference with cognitive and motor performance: Although buspirone is less sedating than other anxiolytics and does not produce significant functional impairment, its CNS effects in a given patient may not be predictable; therefore, patients should be cautioned about operating an automobile or using complex machinery until they are reasonably certain that buspirone does not affect them adversely. Although buspirone has not been shown to increase alcohol-induced impairment in motor and mental performance, it is prudent to avoid concomitant use with alcohol.

Potential for withdrawal reactions in sedative/hypnotic/anxiolytic drug dependent patients: Because buspirone will not block the withdrawal syndrome often seen with cessation of therapy with benzodiazenines and other common sedative/hypnotic drugs, before starting buspirone withdraw patients gradually from their prior treatment, especially those who used a CNS depressant chronically. Rebound or withdrawal symptoms may occur over varying time periods, depending in part on the type of drug and its elimination half-life. The withdrawal syndrome can appear as any combination of irritability, anxiety, agitation, insomnia, tremor, abdominal cramps, muscle cramps, vomiting, sweating, flui-like symptoms without fever, and occasionally, even as seizures.

Possible concerns related to buspirone's binding to dopamine receptors: Because buspirone can bind to central dopamine receptors, a question has been raised about its potential to cause acute and chronic changes in dopamine mediated neurological function (eg. dystonia, pseudoparkinsonism, akathisia, and tardive dyskinesia). Clinical experience in controlled trials

Nursing Mothers – Administration to nursing women should be avoided if clinically possible.

Pediatric Use – The safety and effectiveness have not been determined in individuals below 18 years of

Interest of the service of the serv

U.S. Patent Nos. 3,717,634 and 4,182,763



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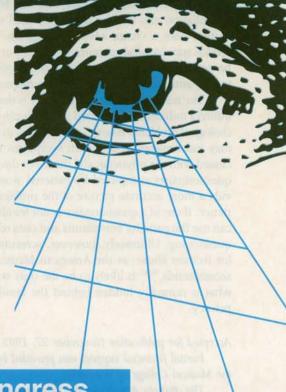


What do we really know about editorial peer review in scientific publication?

Something, but not enough.

- · We know that peer review is widely used, but how widely?
- We know that peer review suffers from bias and conflicts of interest, but what biases and conflicts really matter? And how do we get rid of them?
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 of its worth, but will it hold up under the same rigor and scrutiny we
 demand of science itself?

To answer many of these questions, editors, scientists, and scholars will gather to present and discuss research findings at the Second International Congress on Peer Review in Biomedical Publication, September 9-11, 1993, at the Fairmont Hotel in Chicago, Illinois.



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September 9-11, 1993 Chicago, Illinois

Topics will include

- · The mechanisms of peer review and editorial decision making in different journals, including blind review
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- · Breakdowns, weaknesses, and biases in the system
- · Conflicts of interests
- · Fraud and scientific misconduct
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The subject of the Congress is biomedical publication, but scholars in other disciplines are urged to participate, so that we may examine editorial peer review in the context of the overall scientific enterprise.

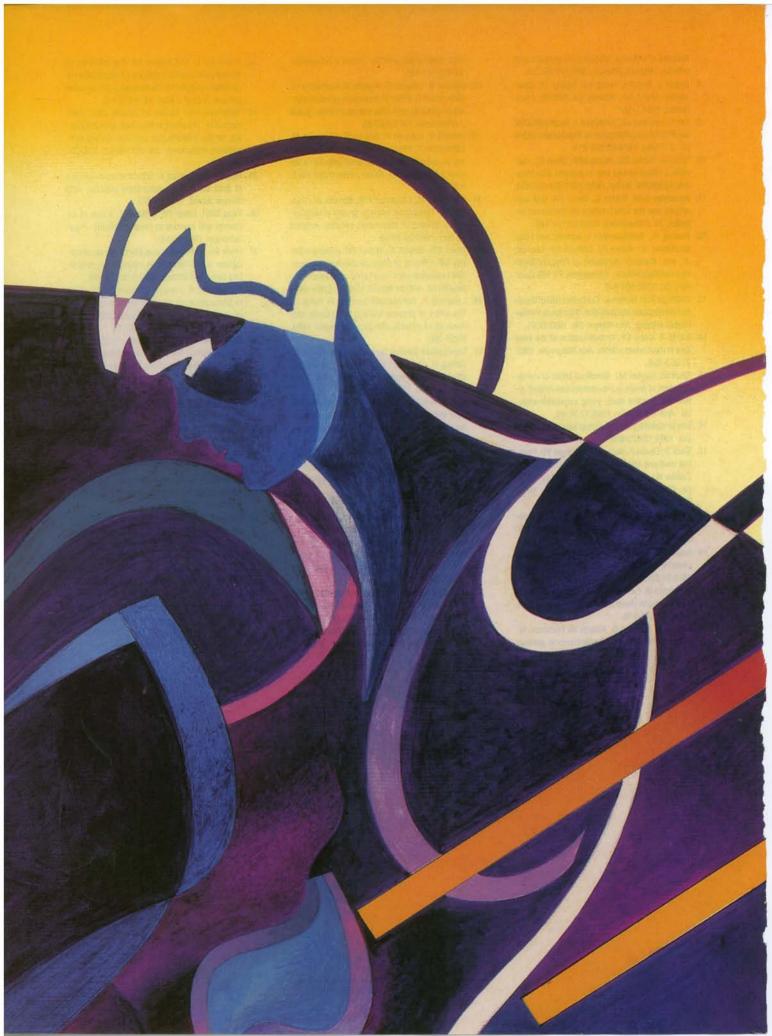
For more information, contact

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RELAFEN

For the treatment of osteoarthritis and rheumatoid arthritis

Efficacy comparable to naproxen or aspirin

A low incidence of peptic ulcers

 Other G.I. symptoms comparable to other NSAIDs, including diarrhea, dyspepsia and abdominal pain

Convenient once-a-day dosing

- Usual starting dose 1000 mg/day, taken as two 500 mg tablets
- Dosage can be titrated up to 2000 mg/day

Please see brief summary of prescribing information on adjacent page.

SmithKline Beecham Pharmaceuticals

Philadelphia, PA 19101

SmithKline Beecham, 1992

RELAFEN®

See complete prescribing information in SmithKline Beecham Pharmaceuticals literature or PDR. The following is a brief summary.

CLINICAL PHARMACOLOGY: Relaten is a nonsteroidal anti-inflammatory drug (NSAID) that exhibits anti-inflammatory, analgesic and antipyretic properties in pharmacologic studies. As with other nonsteroidal anti-inflammatory agents, its mode of action is not known. However, the ability to inhibit prostaglandin synthesis may be involved in the anti-inflammatory effect.

The parent compound is a prodrug, which undergoes hepatic biotransformation to the active component, 6-methoxy-2-maphthylacetic acid (MNA), a potent inhibitor of prostaglandin synthesis.

INDICATIONS AND USAGE: Acute and chronic treatment of signs and symptoms of osteoarthritis and rheuma-

CONTRAINDICATIONS: Patients (1) who have previously exhibited hypersensitivity to it; (2) in whom Relaten, aspirin or other NSAIDs induce asthma, urticaria or other allergic-type reactions.

WARNINGS: Remain alert for ulceration and bleeding in patients treated chronically, even in the absence of

WARNINGS: Remain alert for unceration and one-burny in patients vested with Relaten (1,140 followed for one year and 927 for two years), threat symptoms. In controlled clinical trials involving 1,677 patients treated with Relaten (1,140 followed for one year and 927 for two years), the cumulative incidence of peptic ulicers was 0.394 (9596 Ct; 0.396, 0.596) at three to six months, 0.596 (9596 Ct; 0.396, 0.396) at one year and 0.896 (9596 Ct; 0.396), 1.396) at two years. Inform patients of the signs and symptoms of serious Gt. I taxicity and what steps to take if they occur in patients with active peptic ulicer, weigh the benefits of Relaten therapy against possible hazards, institute an appropriate ulicer treatment regimen and monitor the patients' progress carefully.

In considering the use of relatively large doses (within the recommended dosage range), anticipate benefit sufficient to offset the potential increased risk of Gt. loxicity.

sufficient to offset the potential increased risk of G.I. toxicity.

PRECAUTIONS: Because nabumetone undergoes extensive hepatic metabolism, no adjustment of Relaten dosage is generally necessary in patients with renal insufficiency. However, as with all NSAIDs, monitor patients with impaired renal function more closely than patients with own maria renal function. Evaluate patients with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, for evidence of the development of a more severe hepatic reaction while on Relaten therapy, if abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilla, rash, etc.), discontinue Relaten. Use Relaten cautiously in patients with severe hepatic impairment.

As with other NSAIDs, use Relaten cautiously in patients with a history of congestive heart failure, hypertension or other conditions predisposing to fluid retention.

Based on UK, light photosensitivity testing, Relaten may be associated with more reactions to sun exposure than might be expected based on skin tanning types.

Physicians may wish to discuss with their patients the potential risks (see WARNINGS, PRECAUTIONS and ADVERSE REACTIONS) and likely benefits of NSAIDs treatment, particularly when the drugs are used for less serious conditions where treatment without NSAIDs may represent an acceptable alternative to both the patient.

ADVERSE REACTIONS) and Interly benefits or insolute treatment, passessing the physician. Exercise continons where treatment without NSAIDs may represent an acceptable alternative to both the patient and the physician. Exercise caution when administering Relaten with warfarin since interactions have been seen with other NSAIDs. In two-year studies conducted in mice and rats, nabumetone had no statistically significant tumorigenic effect. Nabumetone did not show mutagenic potential in the Ames test and mouse micronucleus test in vivo. However, nabumetone- and 6MNA-treated lymphocytes in culture showed chromosomal aberrations at 80mcg/mL and higher concentrations (equal to the average human exposure to Relaten at the maximum recommended dose), Nabumetone did not impair teriflity of male or female rats treated orally at doses of 320 mg/kg grally between translations are proposed to the average human exposure to 6MNA at the maximum recommended domand oses. There are no adequate, well-controlled studies in pregnant women. Use the drug during pregnancy only if clearly needed. Because of the known effect of prostaglandin-synthesis-inhibiting drugs on the human fetal cardiovascular system (closure of ductus arteriosus), use of Relaten during the third trimester of pregnancy is not recommended.

human fetal cardiovascular system (closure of ductus arteriosus), use of *Relaten* during the third trimester of pregnancy is not recommended.

The effects of *Relaten* on labor and delivery in women are not known. As with other drugs known to inhibit prostaglandin synthesis, an increased incidence of dystocia and delayed parturition occurred in rats treated throughout pregnancy. It is not known whether nabumetone or its metabolites are excreted in human milk; however, 6MNA is excreted in the milk of lactating rats. Because of the possible adverse effects of prostaglandin-synthesis-inhibiting drugs on neonates. *Relaten* is not recommended for use in nursing mothers.

Safety and efficacy in children have not been established.

Off the 1,677 patients in U.S. clinical studies who were treated with *Relaten*, 411 patients (24%) were 65 years of age or older; 22 patients (1%) ever 75 years of age or older. No overall differences in efficacy or safety were observed between these older patients and younger ones. Similar results were observed in a one-year, non-U.S. postmarketing surveillance study of 10,800 *Relaten* patients, of whom 4,577 patients (42%) were 65 years of age or older.

ADVERSE REACTIONS: Incidence ≥146—Probably Causally Related—Diarrhea (1496), dyspepsia (1396), abdominal pain (1296), constipation*, flatulence*, nausea*, positive stool gualaca*, dry mouth, gastritis, stomatilis, vomiting, dizziness*, headache*, tatigue, increased sweating, insomnia, nervousness, somnolence, maths, vomiting, dizziness' headache, fatigue, increased sweating, insomnia, nervousiess, sominierse, pruritus', rash', tinnitus', edema'.

"Incidence of reported reaction between 3% and 9%. Reactions occurring in 1% to 3% of the patients are

unmarked.
Incidence <1%-Probably Causally Related*—Anorexia, cholestatic jaundice, duodenal ulcer, dysphagia, gastric ulcer, gastroenteritis, gastrointestinal bleeding, increased appetite, liver function abnormalities, melena, asthenia, agitation, anxiety, confusion, depression, malaise, paresthesia, tremor, vertigo, bublica eruptions, photosensitivity, uriticaria, pseudoporphyria cutanea tarda, vasculitis, weight gain, dyspnea, hypersensitivity pneumonitis, albuminuria, azotemia, interstitial nephritis, abnormal vision, anaphylactoid reaction,

angioneurotic edema. Incidence <1%—Causal Relationship Unknown†—Bilirubinuria, duodenitis, eructation, gallstones, Incidence <194-Causal Helationship Unknown — Bilirubinuria, duodentis, eructation, galistones, gingivitis, glossitis, pancrealitis, rectal bleeding, nightmares, acne, alopecia, erythema multiforms. Stevens-Johnson Syndrome, angina, arrhythmia, hypertension, myocardial infarction, palpitations, syncope, thrombophiebitis, asthma, cough, dysuria, hematuria, impotence, renal stones, taste disorder, fever, chilis, anemia, leukopenia, granulocytopenia, thrombocytopenia, hyperglycemia, hypokalemia, weight loss.
†Adverse reactions reported only in worldwide postmarketing experience or in the literature are italicized.

PAGVERS reactions reported only in wondowise positianxieting experience or in the interature are traincized.

OVERDOSAGE: If acute overdose occurs, empty the stomach by vomiting or lavage and institute general supportive measures as necessary. Activated charcoal, up to 60 grams, may effectively reduce nabumetone absorption. Coadministration of nabumetone with charcoal to man has resulted in an 80% decrease in maximum plasma concentrations of the active metabolite.

One overdose occurred in a 17-year-old female patient who had a history of abdominal pain and was hospitalized for increased abdominal pain following ingestion of 30 Relaten tablets (15 grams total). Stools were negative cocult blood and there was no fall in serum hemoglobin concentration. The patient had no other symptoms. She was given an H₂-receptor antagonist and discharged from the hospital without sequelae.

DOSAGE AND ADMINISTRATION: Recommended starting dose: 1000 mg taken as a single dose with or without lood. Some patients may obtain more symptomatic relief from 1500 mg to 2000 mg daily. Dosages over 2000 mg daily have not been studied. Use the lowest effective dose for chronic treatment.

HOW SUPPLIED: Tablets: Oval-shaped, film-coated, 500 mg—white, imprinted with the product name RELAFEN and 500, in bottles of 100 and 500, and in Single Unit Packages of 100 (intended for institutional use only); 750 mg—beige, imprinted with the product name RELAFEN and 750, in bottles of 100 and 500, and in Single Unit Packages of 100 (intended for institutional use only).

Store at controlled room temperature (59° to 86°F) in well-closed container; dispense in light-resistant container.

500 mg 100's: NDC 0029-4851-20 500 mg 500's: NDC 0029-4851-25 500 mg SUP 100's: NDC 0029-4851-21

750 mg 100's: NDC 0029-4852-20 750 mg 500's: NDC 0029-4852-25 750 mg SUP 100's: NDC 0029-4852-21

SmithKline Beecham, 1992

BRS-RL:L3



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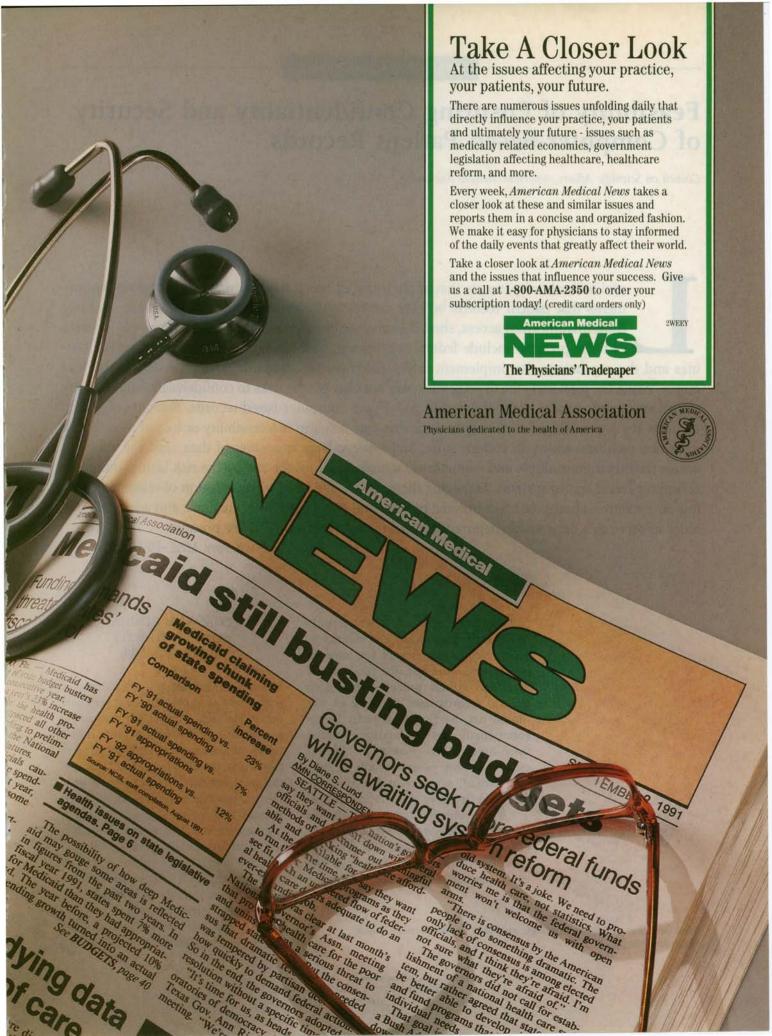
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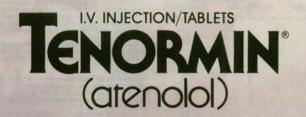
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WHY CONSIDER TENORMIN BEFORE ALL OTHER BETA BLOCKERS?



- V Convenient, once-daily dosing for all indications
- V Effective control of blood pressure and angina
- ▼ Cardioprotection—improving survival during and after MI¹.2*
- **∀** Well-tolerated



^{*}Good clinical judgment suggests that patients who are dependent on sympathetic stimulation for adequate cardiac output and BP are not good candidates for beta blockade. In addition to patients excluded from the ISIS-1 study, those with borderline BP (ie, systolic < 120, especially if over age 60) are less likely to benefit.

References: 1. ISIS-1 (First International Study of Infarct Survival) Collaborative Group, Randomised trial of intravenous atenolol among 16 027 cases of suspected acute myocardial infarction: ISIS-1, Lancet. 1986;2:57-66. 2. Glamann DB, Lange RA, Hillis LD. Beneficial effect of long-term beta blockade after acute myocardial infarction in patients without anterograde flow in the infarct artery. Am J Cardiol. 1991;68:150-154.

LV INJECTION/TABLETS

(FOR PULL PRESCRIBING INCOMMATION, SEE PACKAGE INSERT.)

INDICATIONS AND USAGE: Hypertension: TEXORMIN is indicated in the management of hypertension. It may be used alone or concomitantly with other antihypertensions apents, particularly with a thiazide-type diuretic.

Angine Pactoris bue to Coronary Alberosclerasis: TEXORAMIN is indicated for the long-term management of patients with angina pectoris.

Acuts Myocardial Infraction: TENORAMIN is indicated in the management of hemodynamically stable patients with definite or suspects acute myocardial infraction to reduce cardiovascular mortality. Treatment can be initiated as soon as the patients' chirolacordition allows. (See DOSAGE AND ADMINISTRATION, CONTRAINDICATIONS, and WARNINGS.) In general, there is no basis for treating patients like those who were excluded from the ISIS-1 trial (blood pressure less than 100 mm Hg systolic, heart rate less than 500 m/s ave other reasons to avoid beta blockade. As noted above, some subgroups (eq. elderfy patients with systolic blood pressure below 120 mm Hg) seemed less identify to benefit.

reasons to avoid that discount is a more advert, some adjudge, every personal min against once provided that controlled the several test likely to benefit.

CONTRAINDICATIONS: TENDRMINI is contraindicated in sinus bradycardia, heart block greater than first degree, and degree, cardiogenic shock, and over cardiac failure. (See WARNINGS.)

WARNINGS: Cardiac Failure. Sympathetic stimulation is necessary in supporting circulatory function in congestive heart failure, and beta blockade carries the potential hazard of further depressing mycoardial contractifity and precipitating more severe failure. In patients who have congestive heart failure controlled by digitalis and/or diuretics, TENORMIN should be administered cautiously. Both digitalis and

atenciol slow AV conduction.

In patients with acute impocardial infarction, cardiac failure which is not promptly and effectively controlled by 80 mg of intravenous funcemation required the requirement of the requirement

TENDRIMIN should be withdrawn. (See DDSAGE AND ADMINISTRATION.)

Cessation of Therapy with TENDRIMIN: Patients with coronary artery disease, who are being treated with TENDRIMIN; should be advised against abrupt discontinuation of therapy. Severe exacerbation of angina and the occurrence of myocardial infarction and ventricular arrhythmias have been reported in angina patients following the abrupt discontinuation of therapy with beta blockers. The last two complications may occur with or without preceding exacerbation of the againspectors. As with other beta blockers, which may be added to the patients should be carefully observed and advised to limit physical activity to a minimum. If the angine worsen or acute coronary insufficiency develope, it is recommended that *TENDRIMIN be promptly insufficient distance the properties of the patients that the properties of the patients treated only for hypertension. (See DOSAGE AND ADMINISTRATIVE PRINTIES AND ADMINISTRATIVE WITH BEDIEVE WITH A BLOCKERS.)

Because coronary artery disease is common and may be unrecognized, it may be prudent not to discontinue (FMONMIN therapy abrupity even in patients freated only for hypertension. (See DOSAGE AND ADMINISTRATION.)

Bronchospastic Diseases: PATHENTS WITH BROMCHOSPASTIC DISEASE SUDULO. IN SCHERAL, MOY RECEIVE BETA BLOCKERS.

Because of its relative beta, selectivity, however, TENORMIN may be used with caution in patients with bronchaspastic disease who do not respond to, or cannot be livered, there are supported in the selectivity is not absolute, the lowest possible does of TENORMIN cannot be used with therapy inflated at 50 mg and a beta, stimulating agent (sonocholistory) should be made available. If dosage must be increased, dividing the does should be considered in order to achieve lower peak blood levels.

Anasthesia and Major Surgery: It is not advisable to withdraw beta-adrenorecorpor blocking drugs prior to surger lower peak blood levels.

Anasthesia and Major Surgery: It is not advisable to withdraw beta-adrenorecorpor blocking drugs prior to surger lower peak blood levels.

Anasthesia and Major Surgery: It is not advisable to withdraw beta-adrenorecorpor blocking drugs prior to surger in emajority of patients. However, care should be used when TENORMIN IV. Impection is administered concomitative with such agents.

TENORMIN, like other beta blockers, is a competitive milhibur of beta-receptor agonists and its effects on the heart can be reversed by administration of such agents: go doubtraine or isoproterenol with caution in disease; patient is a beta-blocking agent is required. Beta blockers may mask trained to the care of the properties of the properties and trypoglycamia. TENORMIN is hopping the properties and properties an

Subsequent LENDHMM dosages can be adjusted downward depending on chinical observations including pulse and blood pressure. IERORIMIN aggravate perspheral aterial circulatory disorders. Impaired Renal Function. (SEE DOSAGE AND ADMINISTRATION.)

Drug Interactions: Catacholamine-depleting drugs (eg., reserpine) may have an additive effect when given with beta-blocking agents. Patients treated with TENDHMM plus a catecholamine depletor should therefore be closely observed for evidence of hypotension and/for marked bradycardia which may produce vertigo, syncope, or postural hypotension.

Beta blockers may exacertate the rebound hypotension of the control for the withdrawn several days better and follow the withdrawal of clonidine. If the two drugs are coadministered, the beta blocker should be withdrawn several days better the gradual withdrawal of clonidine. If the two drugs are coadministered, the beta blocker should be withdrawn several days better clonidine administration has stopped.

Caution should be exercised with TENDRMIN I.V. Injection when given in close proximity with drugs that may also have a depressant effect on myocardial contractifity. On rare occasions, concominant use of intravenous beta blockers and intravenous value and several cardiomyopathy, conpestive heart failure, or recent myocardial infarction information on concurrent usage of atenoiol and aspirin is limited. Data from several studies, er. TillHill, ILSIS-2, currently do not suggest any clinical interaction between aspirin and beta blockers in the acute myocardial infarction setting.

While taking beta blockers, painters with a stoppy of the properties of the usual doses of epinephrine used to treat the allergic reaction.

Carcinogenesis, Mutagenesis, Impairment of Fertility Two long-term (maximum dosing duration of 18 months) muses study, each employing dose levels as high as 300 mydrolay or 150 times the maximum recommended human antihypertensive dose." In months in mass study, each employing dose levels as high as 500 mydrolay or 150

	(US S	iteered tudies)	Total - Volunteered and Elicited (Foreign + US Studies)		
	Atenolol (n = 164) %	Placebo (n = 206) %	Atenolol (n = 399)	Placebo (n = 407) %	
CARDIOVASCULAR					
Bradycardia	3	0	3	0	
Cold Extremities	0	0.5	12	5	
Postural Hypotension	2	1	4	Š	
Leg Pain	Ō	0.5	á	ĭ	
CENTRAL NERVOUS SYSTEM/ NEUROMUSCULAR	-			•	
Dizziness	4	1	13	6	
Vertigo	2	0.5	2	0.2	
Light-headedness	1	0	3	0.7	
Tiredness	0.6	0.5	26	13	
Fatigue	3	1	6	5	
Lethargy	1	0	3	0.7	
Drowsiness	0.6	0	2	0.5	
Depression	0.6	0.5	12	9	
Dreaming	0	0	3	í	
GASTROINTESTINAL					
Diarrhea	2	0	3	2	
Nausea	4	1	3	ī	
RESPIRATORY (see WARNINGS)			-	•	
Wheeziness	0	0	3	3	
Dysnnea	a n	i	ē	ž	

Os.

Actue Myeardial Infarction: In a series of investigations in the treatment of acute myocardial infarction, bradycardia and hypotension occurred more commonly, as expected for any beta blocker, in atenolol-treated patients than in control patients. However, these usually responded to atropine and/or to withholding further dosage of atenolol. The incidence of heart failure was not increased by atenolol Inortropic agents were infrequently used. The reported frequency of these and other events occurring during these investigations is given in the following table.

TENORMIN® (atenoloi) 25, 50,100 mg tablets

In a study of 477 patients, the following adverse events were reported during either intravenous and/or oral atencilol administration:

Th Plus	erapy Atenolol	Conventional Therapy Alone (n=233)		
43	(18%)	24	(10%)	
60	(25%)	34	(15%)	
3	(1.2%)	2	(0.9%)	
46	(19%)	56	(24%)	
11	(4.5%)	10	(4.3%)	
	. ,		` '	
16	(6.6%)	28	(12%)	
28	(11.5%)	45	(19%)	
12		29	(11%)	
4	(1.6%)	7	(3%)	
39	(16%)	52	(22%)	
0	(0%)	6	(2.6%)	
			(6.9%)	
4			(5.1%)	
7			(6.9%)	
1			(1.7%)	
	(=::::,		(, . ,	
0	(0%)	2	(0.9%)	
-	(4)	-	(0.0.0)	
Ω	(0%)	2	(0.9%)	
1		õ	(0%)	
3		Ö	(0%)	
	The Plus (n 43 60 3 466 11 16 28 12 4 39 0 4 4 4 7 7 1 0 0 1	60 (25%) 3 (12%) 46 (19%) 11 (4.5%) 16 (6.6%) 12 (5%) 4 (1.6%) 39 (16%) 0 (0%) 4 (1.6%) 1 (0.4%) 0 (0%) 1 (0.4%)	Therapy Plus Alenolol (n=244) (n-244) (18%) (3 (12%) (3 (12%) (3 (12%) (3 (12%) (3 (12%) (4 (18%) (5 (6.6%) (5 (6.6%) (5 (6.6%) (5 (6.6%) (5 (6.6%) (6.6%) (6.6%) (6.6%) (7 (18%) (7 (1	

In the subsequent International Study of Infarct Survival (ISIS-1) including over 16,000 patients of whom 8,037 were randomized to receive TENORMIN treatment, the dosage of intravenous and subsequent oral TENORMIN was either discontinued or reduced for the following reason.

Reasons	for Reduced Dosa IV Atendiol Reduced Dose (< 5mg)*	ge Oral Partial Dose
Haradanalan Maridan adda		
Hypotension/Bradycardia	105 (1.3%)	1168 (14.5%)
Cardiogenic Shock	4 (.04%)	35 (.44%)
Reinfarction	0 (0%)	5 (.06%)
Cardiac Arrest	5 (.06%)	28 (.34%)
Heart Block (> first degree)	5 (.06%)	143 (1.7%)
Cardiac Failure	1 (.01%)	233 (2.9%)
Arrhythmias	3 (.04%)	22 (.27%)
Bronchospasm	1 (.01%)	50 (.62%)
_		

*Full dosage was 10 mg and some patients received less than 10 mg but more than 5 mg.

During postmarketing experience with TENORMIN, the following have been reported in temporal relationship to the use of the drug: elevated liver enzymes and/or bilirubin, headache, impotence, Peyronie's disease, psoriasiform rash or exacerbation of psoriasis, purpura, reversible alopecia, and thrombocytopenia. TENORMIN, like other beta blockers, has been associated with development of antinuclear antibodies (ANA) and lupus syndrome.

POTENTIAL ADVERSE EFFECTS: In addition, a variety of adverse effects have been reported with other beta-adrenergic blocking agents, and may be considered potential adverse effects of TENORMIN.

Hematologic: Agranulopyciss.

Allergic: Fever, combined with aching and sore throat, laryngospasm, and respiratory distress.

Allergic: Fever, combined with aching and sore throat, laryngospasm, and respiratory distress.

Cantal Narraus Systam: Reversible mental depression progressing to catatonia; visual disturbances; hallucinations; an acute reversible syndrome characterized by disorientation of time and place; short-term memory loss; emotional lability with slightly clouded

D

Cantral Nerveus Systims. Nevership mental depression progressing to catatonia, visual disturbances: hallucinations; an acute revershibe syntrome characterized by disorientation of time and place; short-term memory loss; emotional lability with slightly clouded sensorium; and occreased performance on neuropsychmentics.

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Gastraintestinal, showing a sensorium, and of the sensorium, and of the sensorium, and of the sensorium, and of the sensorium and performance on the sensorium and sens

diuretc therapy. The full effect of this doss will usually be seen within one to two weeks. If an optimal response is not achieved, the dosage should be increased to TEXORAIMI 100 mg given as one tablet a day. Increasing the dosage beyond 100 mg a day is unlikely to produce any further benefit.

TEXORAIMI may be used alone or concomitantly with other antihypertensive agents including thiazide-type diuretics, hydralazine, prazosin, and alpha-methyldopa.

Angliap Pactoris: The initial dose of TEXORAIMIN 150 mg given as one tablet a day. If an optimal response is not achieved within one week, the dosage should be increased to TEXORAIMIN 100 mg given as one tablet a day. Some patients may require a dosage of 200 mg once a day for optimal effect.

Twenty-four hour control with once daily dosing is achieved by giving doses larger than necessary to achieve an immediate maximum effect. The maximum early effect on exercise tolerance occurs with doses of 50 to 100 mg, but at these doses the effect at 24 hours is attenuated, averaging about 50% to 75% of that observed with once a day oral dosso of 200 mg.

Acute Myocardial Infarction in patients with definite or suspected acute myocardial infarction, treatment with TEXORAIMIN 17. Injection should be indiated as soon as possible after the patient's arrival in the hospital and after eligibility is established. Such treatment should be initiated in a coronary care or similar unit immediately after the patient's hemodynamic conditions has stabilized. Treatment should be initiated in a coronary care or similar unit immediately after the patient's arrival in the hospital and after eligibility is established. Such treatment should be initiated on a coronary care or similar unit immediately after the patient's hemodynamic conditions have the such as a stable of the patient's hemodynamic coordition has stabilized. Treatment should be initiated to maximum and the conditions including monitoring of blood pressure, heart rate, and electoracing particular than the patient of the patie

(mL/min/1.73m²)	(h)	Maximum Dosage			
15-35	16-27	50 mg daily			
<15	>27	25 mg daily			

Some renally-impared or elderly patients being treated for hypertension may require a lower starting dose of TEKORMIN: 25 mg given as one tablet a day. If this 25 mg dose is used, assessment of efficacy must be made carefully. This should include measurement of blood pressure just prior to the next dose ("trough" blood pressure) to ensure that the treatment effect is present for a full 24 hours. Although a similar dosage reduction may be considered for elderly and/or renally-impaired patients being treated for indications other than hypertension, data are not available for these patient populations. Patients on hemoidaryis should be given 25 mg or 50 mg after each dialysis; this should be done under hospital supervision as marked talls in blood pressure can occur. Cessation of Therappy in Patients with Anglian Pectoris: If withdrawal of TENORMINI therapy is planned, it should be achieved gradually and patients should be carefully observed and advised to limit physical activity to a minimum. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. How SUPPLED

TENORMIN Tables: Tablets of 25 mg atenolol, NDC 0310-0107 (round, flat, uncoated white tablets with "T" debossed on one side and 107 debossed on the other side, besterdly are supplied in bottles of 100 tablets. Tablets of 50 mg atenolol, NDC 0310-0105 (round, flat, uncoated white tablets identified with ICI debossed on one side and 107 debossed on the other side, besterdly are supplied in bottles of 100 tablets. These tablets are distributed by ICI Pharma.

Tablets of 10 mg atenolol, NDC 0310-0107 (round, flat, uncoated white tablets with ICI debossed on one side and 107 debossed on the other side) besterdly are supplied in bottles of 100 tablets and 1000 tablets. And unit dose packages of 100 tablets. These tablets are distributed by ICI Pharma.

Tablets of 10 mg atenolol, NDC 0310-0107 (round, flat, uncoated white tablets with ICI debossed on one side a

Store at controlled room temperature, 15*30 °C (59*36 °F). Dispense in well-closed, light resistant containers. **TEHORRIMI I. V. Injection TEHORRIMI I. V. Injection**, NDC 0310-0108, is supplied as 5 mg atenolol in 10 mL ampules of isotonic citrate-buffered aqueous solution. Protect from light. Keep ampules in outer packaging until time of use. Store at room temperature.



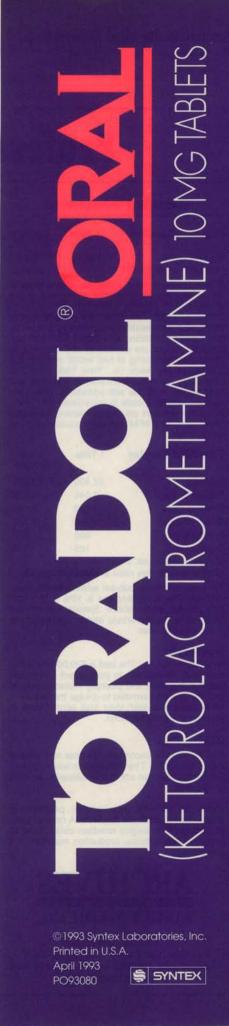
35 points to be considered in the differential diagnosis of hypokalemia as well as a clearly constructed flow diagram outlining the subsequent laboratory evaluation of this entity. In section 3, "Diseases of Organ Systems" (the most extensive part of the book), the text becomes appropriately academic, providing a synopsis of the laboratory manifestations of the most commonly presenting diseases. Pulmonary, gastrointestinal, renal, and endocrine disorders are but a few of the clinical areas addressed. Information in this section is also concisely presented, with each evaluation being covered in great depth. For example, in the case of a patient presenting with hepatic cirrhosis, Wallach reviews the expected findings, range of normal values, and variations for each hepatic function test available (eg, "serum LAP is slightly increased in 30% of patients, total serum cholesterol is normal or decreased"). After approaching cirrhosis generally, specific types (eg, Wilson's disease and hemochromatosis) are reviewed. Algorithms and tables abound, making the total format one that enhances both practitioners' knowledge of internal medicine and clinical efficiency in patient care. The last section, "Drugs and Laboratory Test Values," offers extremely useful tables that outline interactions of medications as reflected in results of laboratory tests. For "drugs that may

cause increased urine catecholamines," 20 possible drug interactions are listed. The example of "drugs that can/may potentiate Coumarin action" shows how clinically relevant this section can be. A particular table in this section, "Drugs of Abuse," provided me with a new reference to street names, toxic levels, and appropriate assay of such drugs.

Above all, Wallach's index is the major asset of the manual. There are 130 pages of references to tests, conditions, diseases, symptoms, and medications that time after time send the reader exactly to where the desired information rests. The overwhelming thoroughness is demonstrated by the entry for sedimentation rate, which lists 70 areas of reference.

Interpretation of Diagnostic Tests continues to be so practical that it remains a "must have" for all clinical libraries. Students and residents alike will also continue to admire this manual, as it presents highly accessible essential laboratory information and decision-making advice relevant to both the learning process and preparation for examination in internal medicine. The trick with forthcoming editions is to keep this manual comprehensive while concise. Wallach continues as no other in capturing that goal.

James J. Bergman, MD University of Washington Seattle, Wash



What do these little suckers have to do with arthritis?

Plenty.

The little suckers are ticks. More specifically, deer ticks.

They transmit Lyme disease, an infection that can cause recurring arthritis, and damage to the brain and heart.

Arthritis researchers, sponsored by the Arthritis Foundation, have been hard at work to find out why. Their findings have led to effective antibiotic

treatments for Lyme disease.

The Arthritis Foundation sponsors hundreds of research projects as important as this one. We also provide continuing education for medical professionals, and practical help for people who have arthritis.

So support the Arthritis Foundation. Today. It's your contributions that make us tick.

YES, I'D LIKE TO HELP

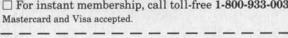
Please activate my membership in the Arthritis Foundation, which helps support research and includes a year's subscription to *Arthritis Today*, the official magazine of the Foundation. Enclosed is my membership contribution of \$20 or more.

LT.					
Name			 		_
V					

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 $\begin{tabular}{ll} Dallas, TX 75287-0277 \\ \hline \end{tabular} For instant membership, call toll-free $1-800-933-0032$. \\ \end{tabular}$





ARTHRITIS

NAPROSYN

(NAPROXEN) 500 mg tablets

Brief Summary:

Contraindications: Patients who have had allergic reactions to NAPROSYN. ANAPROX or ANAPROX DS or in whom aspirin or other NSAIDs induce the syndrome of asthmar, rhinitis, and nasal polyps. Because anaphylactic reactions usually occur in patients was provided to the patients of the pat

Incidence of reported reaction 3%-9%. SYNTEX Where unmarked, incidence less than 3%.

U.S. patent nos. 3,904,682, 3,998,966 and others. ©1991 Syntex Puerto Rico, Inc. Rev. 39 September 1990

FOR CHRONIC ARTHRITIS

EXPECT A REDUCTION IN JOINT PAIN AND TENDERNESS

