Today's hypertensives with new concerns...

CARDURA GENERATION

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.¹³

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%).



Please see brief summary of prescribing information on next page. ©1992, Pfizer Inc CARDURA® (doxazosin mesylate) Tablets cribing info

Brief Summary of Prescrib INDICATIONS AND USAGE

CARDURA (doxazosin mesviate) is indicated for the treatment of hypertension CARDURA may be used alone or in combination with directions or beta-adrenargic blocking agents. There is limited experience with CARDURA in combination with angiolensin converting enzyme inhibitors or calcium channel blockers. CONTRAINDICATIONS

(doxazosin mesylate) Scored Tablets

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

Syncope and "First-dose" Effect:

WATININGS Syncops and "First-dose" Effect: Dozzszin, like other alphn-adrenergic blocking agents, can cause marked hypolension, sepeciatily in the unpright position, with syncops and other positural symptoms such as dizziness. Marked orthestallo 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 two days. To docrease the likelihood of szcessive hypolension and syncope, il is essential that ireatiment to initiated with the irm gdose. 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 how wesks. Additional sulthypartonsive agence should be added with acuiton. Patients being litrated with doszcetin should be added with caulion. Patients being litrated with doszcetin should be added with caulion. Patients being litrated with doszcetin should be calcined to avoid situations where injury could result should sproeps occur. In an early investigational study of the safely and tolerance of increasing daily doses of doszcetin in normolensives beginning at 1 mg/day, only 2 of 6 subjects could tolerate more than 2 mg/day without experiencing symptomatic postural hypotension, in another study of 24 healthy normolensive male subjects experienced symptomatic postural hypotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours after the first dose necessitating layotension between 0.5 and 6 hours

the link dose necessitating termination of the study. In this study 2 of the normolensive subjects experienced syncope. Subsequent trials in hyperfansive patients 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 the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at 16 mg/day

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

Beneral 1. Orthostatic Hypotension:

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 were common in clinical trials, occurring in up to 23% of all palents treated and causing 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.

b they introve, two, compared to two at the flig and with the placed group. Patients in occupations in which orthostatic hypotension could be dangerous should 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:

Campute their interval. CARDURA should be administered with caution to patients with evidence of impaired hepatic function or to patients receiving drugs known to influence hepatic metabolism (see CLINICAL PHARMACOLOGY). There is no controlled clinical Reperience with CARDURA In patients with these conditions. 3. Leukopenia/Neutropenia: Analysis of hematologic data from patients receiving CARDURA in controlled

clinical trials showed that the mean WBC (N=474) and mean neutrophil counts (N=419) were decreased by 2.4% and 1.0% respectively, compared to placebo, a (re-sty) were decreased by 2.4% and 1.0% respectively. Compared to placebo, a planomenon seem with other alpha blocking drugs. A search through a data base of 2400 patients revealed 4 in which drug-related neutropania could not be ruled out. Twe had a single low value on the last day of treatment. Two had stable, non-progressive neutrophil counts in the 1000/mm⁺ range over periods of 20 and 40 weeks. In cases where follow-up was available the WBCs and neutrophil counts the rediscontinuation of CARDURA. No patients became symptomatic as a result of the low WBC or neutrophil counts. Information for Patients:

Information for Patients: Patients should be made aware of the possibility of syncopal and orthostatic 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 inferruption of therapy whan tratament is resumed. They should be cautioned to avoid situations where injury could result should syncope occur during initiation of diversate therapy. The should see a advised of the anat to sit or list now when avoid situations where injury could result should syncope occur during initiation of dozazoain threaty. They should also be advised of the need to sit or lie down when symptoms of lowered blood pressure occur, although these symptoms are not always orthostatic, and to be careful when nising from a sitting or lying position. If dizziness, lightheadedness, or papitations are bothersome they should be reported to the physician, so that does adjustment can be considered. Patients should also be told that drowsiness or somnolence can occur with doxazosin, requiring caution Dependent can be down of the source to be considered. in people who must drive or operate heavy machinery

Drug Interactio

Most (98%) of plasma doxazosin is protein bound. In vitro data in human been administered without any evidence of an adverse drug interaction to patients receiving thiazide diuretics, beta blocking agents, and nonsteroidal anti-Inflammatory drugs. Drug/Laboratory test interactions:

Nona known

Cardiac Toxicity in Animals:

ocardial necrosis or fibrosis was displayed by sed incidence of m An increased incidence of myocardial necrosis or throsis was displayed by Sprague-Dawley rats after 6 months of idelary 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 60 kg). Myocardial fibrosis was observed in both rats and mice treated in the same maner with 40 mg doxacentkyodyd for 18 months. No cardiotoxicity was observed at lower doses (up to 10 or 20 mg/kg/day, depending on the study) in either spocies. These lesions were not observed atter 12 months of oral dosing in dogs and Witstar 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. **Carcinogenestis, Mutegenestis and Ingeirment of Ferlilly:** Chronic dielary administration (up to 24 months) of doxazosin mesylate at maximally tolerated concentrations (highest dose 40 mg/kg, about 150 times the maximum focuted study (up to 18 months of delatva administration) in a similarik conducted study (up to 18 months of delatva administration) in mice

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.

tolerated dose of doxazosin. Mutagenicity studies revealed no drug- or metabolite-related effects at either chromosomal or subchromosomal levels. Studies in ratis 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 withdrawal.

Prognancy Teratogenic Effects, Pregnancy Category B. Studies in rabbits and rats at daity real does 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,

xg), rave revealed to evolute de vidence of markets. Iner radiot study, noweer, was compromised by the failur failur to use a maximally tolerated study, noweer, was compromised by the failur to use a maximally tolerated study in the studies 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 tabelled doxasoin to pregnant rats. Nontraloganic Effects, in peri-postnatal studies in rats, postnatal evelopment.

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

and renexes. Nursing Molhers 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 maximum 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 accumulate a statement of the state of the statement of the statemen are excreted in human milk, caution should be exercised when CARDURA is administered to a nursing mother. Pediatric Use

Safety and effectiveness in children have not been established

Safety and effectiveness in children have not been established. **ADVERSE REACTIONS** CAROURA 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/fallque, and some teart rate disturbance, asch about 0.7%. In controlled clinical tidia (tidie (terch compariso CARDIIRA to placeho there was

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

		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%

ambulat Academ 2. The T a rando monothe Group. I	test 1. Fickuring TG, Hypertension and Lipid Trial Study Group. The use of 24-hour y monitoring in the assessment of antihypertensive therapy. Prevented at the American formly Physicians 43rd Annot Assembly, Sighether 24:29, 1991; Washington, D.C. atment of Mild Hypertension Research Group. The Treatment of Mild Hypertension Study: zach, placebo controlled Inti of a nutritional-hypeine regimen along with various drug piles. Arch Intern Med. 1991;151:1413-1422; 3L lahtonan A, the Finnish Multicenter Study wered levels of serum insulin, glucose, and cholesterol in hypertensive patients during with doxazoin. Curr Ther Res. 1990;24:278-284.
---	---

		DOXAZOSIN (N=339)	PLACEBO (N=336)
AUTONOMIC:	Mouth Dry	2%	2%
	Flushing	1%	0%
SPECIAL SENSES:	Vision Abnormal	2%	1%
	Conjunctivitis/Ey e Pain	1%	1%
	Tinnitus	1%	0.3%
PSYCHIATRIC:	Somnolence	5%	1%
	Nervousness	2%	2%
	Depression	1%	1%
	Insomnia	1%	1%
	Sexual Dysfunction	2%	1%
QASTROINTESTINAL:	Nausea Diarrhea Constipation Dyspepsia Flatulence Abdominal Pain Vomiting	3% 2% 1% 1% 1% 0%	4% 3% 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 exposure to doxazosin. The following adverse reactions occurred with a requency of between 0.5% and 1%: syncope, hypoesthesis, increased sweating, 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. Cardiousscular System: angina pectoris, myocardial infarction, cerebrovascular accident; Autonomic Nervous System: pallor; Metabolic: thirst, gout, biotection in the provide the second seco Parasis, terinor, vencining, contrastici, inigratue, inigratue concentration, Psychiatric: paroninia, ammesia, emotional lability, abnormal thinking, depersonalization; Special Senses: parosmia, earacha, taste perversion, photophobia, abnormal lacrimation; Gastrointestinal System: increased appetite, anorexia, lecal incontinence, gastroenteritis; Respiratory System: bronchos sinustils, couphing, pharyngitis; Urinary System: renal calculus; General Body System: hot flushes, back pain, infection, fever/rigors, decreased weight. influenza-like symptoms.

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

DVERUDSAUE No data are available in regard to overdosage in humans. The oral LD₅₀ 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

DOSAGE AND ADMINISTRATION DOSAGE MUST BE INDIVIDUALZED. The initial dosage of CARDURA in hypertensive patients is 1 mg given once daily. 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 blood pressure measurements should be and 6 hours after a dose. Therefore blood pressure measurements should be taken during this time period after the first dose and with aech increase in dose. Depending on the individual patient's standing blood pressure response (based on measurements taken at 2-6 hours positobse and 24 hours positobse), dosage may then be increased to 2 mg and thereafter in decessary to 4 mg, 8 mg and 16 mg to achieve the desired reduction in blood pressure, increases in dese beyond 4 mg increase the likelihoad of excessive postural affects including syncape, positural dizinesz/veritgo, postural affects is about 12% compared to 3% for itaebh. to 3% for placebo.

HOW SUPPLIED

CARDURA (doxazosin mesylate) 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,

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 0049-2750-66), 2 mg (NDC 0049-2760-66), 4 mg (NDC 0049-2770-66), 8 mg (NDC 0049-2780-66)

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

CAUTION: Federal law prohibits dispensing without prescription. Issued Nov 1990 65-4538-00-0



There's a method to our mildness

A method no soap can claim

Dove[®] is special. It has a unique, non-soap surfactant that replaces soap's alkaline end group



with a milder isethionyl radical. This results in a non-soap, pH-neutral formulation that also contains 1/4 moisturizing cream.

DANE

A mildness no soap can touch

Dove Bar's unique, non-soap formula is milder to skin than *any* soap. Clinical trials prove it. Dove Bar causes significant¹ less irritation and dryness – and it helps the skin retain needed moisture, too. The result: Dove leaves skin softer and smoother than skin washed with soap So recommend Dove – for mildness no soap can touch.

Beauty Bar and Beauty Wash Available in original and Unscented

MILDER TO SKIN THAN SOAF

Dove

ARCHIVES

FAMILY MEDICINE

The ARCHIVES OF FAMILY MEDICINE is a member of the consortium of AMA journals listed below. The ARCHIVES reaches more than 80 000 readers in family and general practice each month, in addition to paid subscribers

The Journal of the American Medical Association (JAMA) American Journal of Diseases of Children (AJDC) Archives of Dermatology **Archives of General Psychiatry** Archives of Internal Medicine **Archives of Neurology** Archives of Ophthalmology Archives of Otolaryngology-Head & Neck Surgery Archives of Pathology & Laboratory Medicine **Archives of Surgery**

The ARCHIVES OF FAMILY MEDICINE (ISSN 1063-3987) is published bimonthly by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. Application to mail at secondclass postage rates is pending at Chicago and at the additional mailing office. GST registration number R126 225 556.

PRINTED ON RECYCLED PAPER

SUBSCRIPTION RATES ---- The subscription rates for the ARCHIVES OF FAMILY MED-ICINE are as follows: \$80 for 1 year, \$143 for 2 years in the United States and US possessions; all other countries, 1 year, \$95; 2 years, \$173 for surface delivery. For expedited air delivery to most countries, add \$20 surcharge for 1-year subscription, \$40 for 2 years. (Rates for subscriptions for delivery to Japan or South Korea are available through exclusive agents-contact the publisher.) Special rates for residents and medical students in the United States and US possessions are available.

CHANGE OF ADDRESS-POSTMASTER, send all address changes to Subscriber Services, American Medical Association, 515 N State St, Chicago, IL 60610. Please notify us of address change at least 6 weeks in advance to ensure uninterrupted service. Include both old and new addresses, a recent mailing label, and new ZIP code.

SUBSCRIBER SERVICES—For information about subscribing to any of the AMA publications, change of address, missing issues, or purchasing back issues, please contact Subscriber Services, American Medical Association, 515 N State St, Chicago, IL 60610, or call (312) 670-SUBS (670-7827) between 8:30 лм and 4:30 РМ CST.

REPRINTS—Authors place their reprint order at the time the edited typescript is reviewed and should allow 4 to 6 weeks for delivery following publication. Requests for individual reprints should be sent directly to the author at the address shown in the article.

For bulk reprint orders for commercial distribution please contact Mark Kuhns, 600 Third Ave, New York, NY 10016, phone (212) 867-6640, fax (212) 953-2497. For reprint orders in limited quantities for educational distribution please contact Rita Houston, 515 N State St, Chicago, IL 60610, phone (312) 464-2512, fax (312) 464-5835.

PERMISSIONS-Contact Laslo Hunyady, Permissions Assistant, 515 N State St, Chicago, IL 60610, phone (312) 464-2513.

ADVERTISING PRINCIPLES-Each advertisement in this issue has been reviewed and complies with the principles governing advertising in AMA scientific publications. A copy of these principles is available on request. The appearance of advertising in AMA publications is not an AMA guarantee or endorsement of the product or the claims made for the product by the manufacturer.

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.

Brief Summary

VERELAN® Verapamil HCI Sustained-Release Pellet-Filled Capsules

For complete Prescribing Information, consult package insert.

CLINICAL PHARMACOLOGY

CLINICAL PHARMACOLOGY Food does not affect the extent or rate of the absorption of verapamil from the controlled release VERELAN capsule. Arrioventricular 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 Acceleration of ventricular rate and/or ventricular fibrillation has been reported in patients with

atrial flutter or atrial fibrillation and a coexisting accessory AV pathway following ad verapamil (see WARNINGS).

Veraparity (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), atrial flutter/fibrillation with an accessory bypass tract (eg, WPW or LGL syndromes), (see WARNINGS), 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 opti-mum digitalization and/or diuretics before VERELAN is used. Verapamil may occasionally produce herebalaice. Eluxities of this severe burn bear bear bear bearded. hypotension. Elevations of liver enzymes have been reported. Several cases of hepatocellular injury have been demonstrated to be produced by verapamil.

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 par-oxysmal 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 venticular 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, 0.8%). Development of marked first-degree block or progression to second- or third-degree, 0.8%). Development of marked first-degree block, sinus arrest, pulmonary edema and/or severe hypotension were seen in some critically ill orients with burgertcohic cardiomyonathy who were fraded with verapamil. patients with hypertrophic cardiomyopathy who were treated with verapamil

Patients with hypertrophic cardiomyopathy who were treated with verapamil.
PRECAUTIONS
Verapamil should be given cautiously to patients with impaired hepatic function (in severe dys-function 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 autenuated 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 metoproloi clearance may occur with combined use. Chronic verapamil treatment can increase serum digokin 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 extrarena clearance of digitoxin. The digoxin dose should be reduced when verapa-mil 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 alter verapamil administration. Concomitant use of llecainide and verapamil may have additive effects on myocardial contractility. Av conduction, and repolarize-tion. Combined verapamil and quindine therapy in patients with hypertophic cardiomyopathy should be avoided, since significant hypotension may result. Verapamil has been given concom-tant with and long-acting nitrates without any un

ADVERSE REACTIONS

ADVERSE REACTIONS ADVERSE REACTIONS Aversible (upon discontinuation of verapamil) nonobstructive, paralytic ileus has been infre-quently 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%); leth-ray (3.2%); dyspepsia (2.5%); rash (1.4%); ankle edema (1.4%); see disturbance (1.4%); myalgia (1.1%). In clinical trials of other formulations of verapamil HCI (N = 4.954), the 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%); CHF/pulmonary edema (1.8%); fatigue (1.7%); bradycardia (HR < 50/min) (1.4%); AV block-total 1*, 2*, 3° (1.2%); 2° and 3° (0.6%); 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, palpita-tions, purpura (vasculitis), syncope. Digestive System: diartnea, dry mouth, gastrointestinal dis-tress, gingival hyperplasia. Hemic and Lymphetic: ecchymosis or bruising. Nervous System-sia, psychotic symptoms, shakiness, somnolence. Respiratory: dyspnea. Skin: arthralgia and rash, exanthema, hair loss, hyperkeratosis, maculae, sweating, urticaria, Skevens-Johnson syn-drome, erythema multiforme. Special Senses: blurred vision. Urogenital: cynecomastia, impo-tence, increased urination, spotty menstruation.

Rev. 1/92 20801-92

LEDERLE LABORATORIES DIVISION American Cyanamid Company Pearl River, NY 10965

by ELAN PHARMACEUTICAL RESEARCH CORP. Gainesville, GA 30501

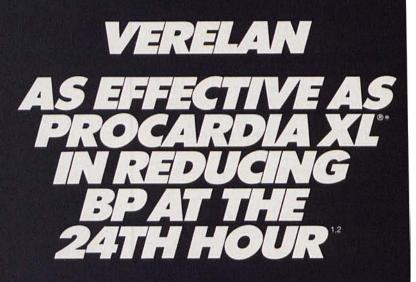


Tederle

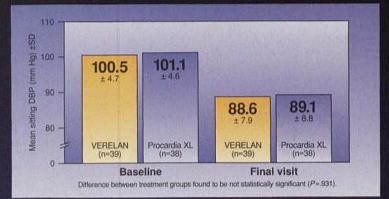
Manufactured for



© 1992 Lederle Laboratories, A Division of American Cyanamid Company, Wayne, NJ 07470 September 1992 Printed in USA September 1992



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.

PERELA

VENELA

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

ONCE-A-DAY

Please see brief summary of Prescribing Information on adjacent page.

Verapamil HCI 180 mg Pellet-filled capsules

TAGAMET * (brand of cimetidine)

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

Indications and Usage 1) Short-term treatment of active duodenal ulcer; [2] maintenance therapy for duodenal ulcer patients at reduced dosage after healing of active ulcer; [3] short-term treatment of active benign gastric ulcer; [4] erosive gastroesophageal reflux diseas; [5] prevention of upper gastricintestinal bleeding in critically ill patients; [6] treatment of pathological hypersecretory conditions.

Contraindications: Tagamet is contraindicated for patients known to have hypersensitivity to the product.

Precautions: Rare instances of cardiac arrhythmias and hypotension have been reported following the rapid administration of Tagamet (cimetidine hydrochloride) Injection by intravenous bolus.

Symptomatic response to Tagamet therapy does not preclude the presence of a gastric malignancy. There have been rare reports of transient healing of gastric ulcers despite subsequently documented malignancy.

Reversible confusional states have been observed on occasion, predominantly in severely III patients.

Tagamet has been reported to reduce the hepatic metabolism of warfarin-type anticoapulants, pherytoin, propranolo, infedipine, chiordiaerpoxide, diazepam, certain tryckie antidepresants, lidocanie, Infedipine, and metronidaelo. Clinicality significant effects have been reported with the warfarin anticoaguiants; therefore, close monitoring of protriormbin time is recommended, and adjustment of the anticoaguiant dose may be necessary when Tagamet is administered concomitantly. Interaction with phenrytoin, lidocanie and theophylline has also been reported to produce adverse clinical effects.

However, a crossover study in healthy subjects receiving either Tagamet. 300mg q.id. or 800mg h.s. concomitantly with a 300mg b.id. dosage of theophylline (Theo-Du^m, Key Pharmaceuticais, Inc.) demonstrated less alteration in steady-state theophylline peak serum levels with the 800 mg h.s. regimen, particularly in subjects aged 54 years and older. Data beyond ten days are not available. [Note: All patients receiving theophylline should be monitored appropriately, regardless of concomitant drug therapy.]

In a 24-month toxicity study in rats, at dose levels approximately 8 to 48 times the recommended human dose, benign Leydig cell tumors were seen. These were common in both the treated and control groups, and the incidence became significantly higher only in the aged rats receiving Tagamet.

A weak antiandrogenic effect has been demonstrated in animals. In human studies, Tagamet has been shown to have no effect on spermatogenesis, sperm count, motility, morphology or in vitro fertilizing capacity.

Pregnancy Category B: Reproduction studies have been performed in rats, rabbits and mice at doses up to 40 times the normal human dose and have revealed no evidence of impaired fertility or harm to the fetus due to Tagamet. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Lack of experience to date precludes recommending Tagamet for use in children under 16 unless anticipated benefits outweigh potential risks: generally, nursing should not be undertaken by patients taking the drug since cimetidine is secreted in human milk.

Adverse Reactions: Diarrhea, dizziness, somnolence, headache. Reversible confusional states (e.g., mental confusion, agitation, psychosis, depression, anuiety, hallucination, disorientation, predominanti yi n severity ill patients, have been reported. Reversible impotence in patients with pathological hypersecretory disorders reeving Dagmet, patricularly in high disols for a tiesal 21 months, has been reported. The incidence of impotence in large-scale surveillance studies at regular doset has not exceeded that commonly reported in the general population. Gynecomastila has been reported in patients treated for one month or longer. Decreased while blood cell courts in Tagamest-treated patients [approximately 1 per 10000 patients], including a lew reports of recurrence on rechailenge. Most of these reports were in adverse of one other patients treated for an emonth or longer. Decreased while blood cell courts in Tagamest-treated patients [approximately 1 per 10000 patients], including a lew reports of recurrence on rechailenge. Most of these reports were in patients who has devicus concentiant illnesses and received dragi and/or treatment known to produce neutropenia. Thrombocytopenia [approximately 3 per million patients] and beings concentiant. These scale and patients and bosen reported. As with some other H₁-receptor antagonists, there have been extremely ransaminase have been reported. Reversible adverse hepatic effects, cholestatic or mixed cholestatic hepatocellular in tause, have been reported farely. Because of the perdominance of cholestatic faint mature, have been reported farely because of the perdominance of cholestatic faint mature, have been reported farely because of the partnerations in all patients: severe patient famos is a patient receiving nancreatits and allergic receivins. Including anaphysias in a patient receiving and eacerhaation of joint symptoms in patients with preexisting anthrins have been reported areally allergic treatens. Including anaphysias: and hypersersitivity vasculits,

How Supplied: Tablets: 200 mg tablets in bottles of 100, 300 mg tablets in bottles of 100 and Single Unit Packages of 100 lintended for institutional use only; 400 mg tablets in bottles of 60 and Single Unit Packages of 100 lintended for institutional use only, and 800 mg Titrab[®] tablets in bottles of 30 and Single Unit Packages of 100 lintended for institutional use only.

Liquid: 300 mg/5 mL, in 8 fl oz (237 mL) amber glass bottles and in single-dose units (300 mg/5 mL), in packages of 10 (intended for institutional use only).

Injection: Vlats: 300 mg/2 mL in single-dose vials, in packages of 25, and in 8 mL multi-dose vials, in packages of 10 and 25.

Single-Dose Premixed Plastic Containers: 300 mg in 50 mL of 0.9% Sodium Chloride in single-dose plastic containers, in packages of 4 units. No preservative has been added.

Exposure of the premixed product to excessive heat should be avoided. It is recommended the product be stored at controlled room temperature. Brief exposure up to 40°C does not adversely affect the premixed product.

ADD-Vantage* Viais: 300 mg/2 mL in single-dose ADD-Vantage* Viais, in packages of 25.

Tagamet (cimetidine hydrochloride) Injection premixed in single-dose plastic containers is manufactured for SmithKline Beecham Pharmaceuticals by Baxter Healthcare Corporation, Deerfield, IL 60015. BR-JGLB7

PAIN

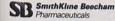
RELIEF

Put out the fire *fast* with Tagamet[®]

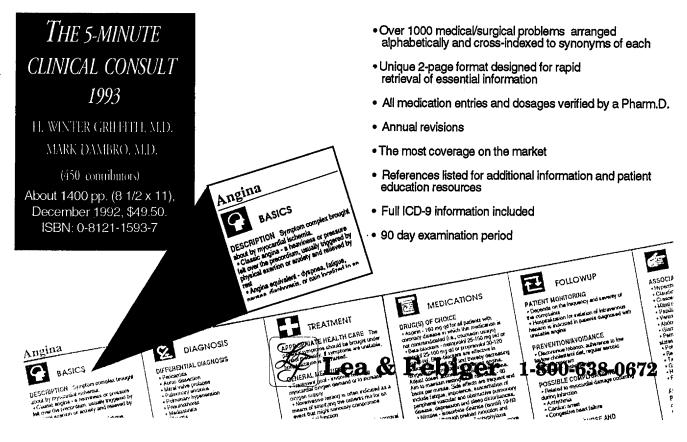
In acute duodenal ulcer: 400 mg b.i.d./800 mg Tiltab[®] Tablets h.s.

In erosive esophagitis: 800 mg b.i.d.





We set out to write the world's best current therapy book. We succeeded!



ARCHIVES

FAMILY MEDICINE

Publication Staff Offices: 515 N State St Chicago, IL 60610

Editorial Processing

Director: Cheryl Iverson Assistant Director: Paula Glitman Manager: Daniel Knight Free-lance Coordinator: Vickey Golden Assistant Free-lance Coordinator: Richard T. Porter Senior Copy Editor/Atex Specialist: Paul Frank Copy Editors: Laura Bleiler Diane L. Cannon Mary E. Coerver Beena Rao lanice Snider Manuscript Records Clerk: Tonja Glover

Electronic Production

Director: Mary C. Steermann Manager, Art/Design: Thomas J. Handrigan Assistant Manager: JoAnne Weiskopf Electronic Artist: Juliana K. Mills Electronic Coordinator Mary Ellen Johnston Manager, Electronic Production: Jaye Dickson Electronic Production Associate: Linda Knott **Electronic Production Operators:** Brenda Chandler-Haynes Leslie Koch Mary Ann Kuranda Debra Lucas Lisa Swanson Regina Vander Revden Manager, Proofreading: Barbara Clark Proofreaders: Gwen Gilberg Teresa H. Omiotek Jennifer Reiling

Periodicals Production

Director: Carl Braun Staff Assistant: Diane Darnell Manager: Susan Price Production Associates: Debbie Pogorzelski Christine L. Wagenknecht Senior Production Assistants: Kira Culver Lana Hampton Kate Mutchnik E. Ruth White

Publishing Operations Division Office

Manager, Budgets & Costs: Bonnie Van Cleven Manager, Advertising Production: Vanessa Hayden Staff Assistant:

Karen Branham

Circulation

Director: Beverly Martin **Reprints:** Rita Houston

Fulfillment

Director: Raymond Healy

Specialty Journal Division Office

Communications Coordinator: Julie Foreman

Administrative Assistant: Marla Hall

Indexing

Director: Norman Frankel Staff: George Kruto Mary Kay Tinerella

ARCH FAM MED/VOL 1, NOV 1992 168

R Nasal Inhaler (triamcinolone acetonide)

THE ONCE-DAILY NASAL STEROID



[na ' za-cort] Triamcinolone Acetonide Nasal Inhaler For Intranasal Use Only Shake Well Before Using

CONTRAINDICATIONS: Hypersensitivity to any of the ingredients of this preparation cates its use

contraindicates its use. 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 withdrawai, 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 astirma or other clinical conditions requiring long-term systemic corticosteroid treatment, too rapid a decrease in systemic corticosteroids may cause a severe evacentarium of their symptoms. exacerbation of their symptoms.

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

PRECAUTIONS

General: In clinical studies with triamcinolone acetonide administered intranasally, the development of localized infections of the nose and pharynx 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.

Triamcinologica acetonide administered intransativity 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 prednissone 10 mg/day significantly reduced adrenal response to ACTH over the same period (see CLINICAL TRIALS section)

section). Nasacort Nasai 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 occular herpes simplex. Because of the inhibitory effect of corticosteroids on wound healing in patients who have experienced recent nasal septal ulcers, nasai 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.

the following information and instructions. Patients should use Nasacort Nasai 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 it symptoms do not improve after three weeks, or if the condition worsens. Nasai irritation and/or burning or stinging after use of the spray occur only rarely with this product. The patient should contact the physician if they occur. steroid

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

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

carcinogènic potential afe underway. Impairment of Fertility: Male and female rats which were administered oral triamcinolone acetonide al 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 (25 - 150 mcg/kg/day or 20 - 110 mcg/m²/day, as calculated on a surface area basis). Reproductive performance of female rats 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 2.0 mcg/m²/day).

Didebed and notatic of marginality toxic obsets (US and 10 mcg/rg/day of 38 mcg/mr/day).
Pregnancy: Pregnancy Category C. Like other corticolds, triamcinolone acetonide has been shown to be tratogenic in rats and rabbits. Treatogenic effects, which occurred in both species at 0.02, 0.04 and 0.08 mg/rg/day (approximately 135, 270 and 540 mcg/m²/day in the rat and 320, 640 and 1280 mcg/m²/day in the rabbit, as calculated on a surface area basis), included a low incidence of cleft paties and/or internal hydrocephaly and axial skeletal defects. Teratogenic effects, including CNS and cranial maiformations, have also been observed in non-human primates at 0.5 mg/kg/day (approximately 135, g70 and 540 mcg/m²/day). The dosse of 0.02, 0.04, 0.08, and 0.5 mg/kg/day used in these toxicology studies are approximately 12.8, 255, 51, and 318.7 times the maximum recommended dose of 110 mcg of Nasacort per day based on a patient body weight of X6, and 0.5 mg/kg/day used in these toxicology studies are approximately toxic and rabbits. There are no adequate and weight of 10 mcg of Nasacort per day based on a patient body weight of X6, and 0.5 mg/kg/day used in these toxicology studies are approximately toxic and rabbits produced embryotoxic and felotoxic effects which were comparable to those produced by administration by other routes. There are no adequate and well-controlled studies in pregnant women. Tramcinolone acetonide should be used during pregnancy only if the potential benefit usifies the potential risk to the felus. Experience with oral corticolds since their introduction in pharmacologic as opposed to physiologic doses suggests that rodents are more prone to teratogenic dects from corticoids than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy. most women will not need corticoid treatment. during pregnancy.

Nonteratogenic Effects: Hypoadrenalism may occur in infants born of mothers receiving conticosteroids 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.

of staroids 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. Nasai initiation was reported by 28% of the patients who received Nasacort. Other nasopharyngeal side effects were reported by 18% 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. of these nasal adverse effects.

or these masa 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 inflation and headache. It would be unlikely to see acute systemic adverse effects if the nasal application of the 15 mg of triameinoione acetonide was administered all at once. **Caution:** Exercise 1 Jaw prohibite discognite under a utitopic recention.

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

Please see product circular for full prescribing information.

Findlay S, Huber F, Garcia J, et al: Efficacy of once-a-day intranasal administration of triamcinolone acetonide in patients with seasonal allergic thinitis. Ann Allergy 1992. Accepted for publication. 2. Data on file. Rhône Poulenc Rorer Pharmaceuticals Inc.



RHÔNE-POULENC RORER PHARMACEUTICALS INC. 500 ARCOLA ROAD COLLEGEVILLE, PA 19426

NA06M192A 1/92 © 1992 Rhône-Poulenc Rorer Pharmaceuticals Inc.

FC#92-473 Printed in U.S.A.

A MIGRAINE DILEMMA

"Today of all days— I can't believe Mom had to get one of her migraines." "I'd give anything to be with Scott today, but what could I do? Between the pain and the nausea, I can barely move."



Migraine is more than a headache. Recent research has revealed that migraine is a complex, multisymptom disorder of neurobiological origin.^{1,2} Although various theories have been proposed regarding the exact physiological mechanism of migraine, the practical patient presentation has become increasingly clear: headache is only one aspect of the total migraine symptom complex. Nausea, vomiting, and light and sound sensitivity also contribute to the disabling nature of migraine. And that disability means people in the migraine patient's world suffer too—family, friends, coworkers.

Current estimates indicate that over 11 million Americans suffer from migraine with moderate to severe disability³... and the prevalence of migraine is on the rise.⁴ Yet, the sad fact is only one out of three migraine sufferers is actually under a physician's care.⁵ Many have resigned themselves to coping on their own.

Fortunately, research may offer new hope to migraine sufferers.

Results of this research have given us new insights into the neurobiological basis of migraine ... and new hope for migraine patients.

References:

 Lance JW. 5-Hydroxytryptamine and its role in migraine. Eur Neurol. 1991;31:279-281.
 Lance JW. A concept of migraine and the search for the ideal headache drug. Headache. January 1990;30:17-23.
 Stewart WF, Lipton RB, Celentano DD, Reed ML. Prevalence of migraine headache in the United States: relation to age, income, race, and other sociodemographic factors. JAWA. January 1992; 267:64-69.
 Frevalence of chronic migraine headaches— United States, 1980-1989. MMWR. May 1991;40:331, 337-338.
 Data on file, Glaxo Inc.

CERENEX PHARMACEUTICALS

DIVISION OF GLAXO INC. Research Triangle Park, NC 27709

IMX175 Printed in USA June 1992

For the many faces of mild hypertension



THE MOST WIDELY USED CALCIUM ANTAGONIST AS MONOTHERAPY FOR MILD HYPERTENSION**

Effective 24-hour control²

- Single-agent efficacy
- Well tolerated[†]
- No adverse effects on total cholesterol, plasma glucose levels, renal function.⁺ or serum electrolytes³⁻⁶

*The recommended starting dose for Calan SR is 180 mg once daily. Dose titration will be required in some patients to achieve blood pressure control. A lower initial 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.

Verapamil should be administered cautiously to patients with impaired renal function.

 BRIEF SUMMARY
 Contraindications: Severe LV dysfunction (see Warnings), hypotension (systolic 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 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 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, rarek, discontinuation and institution of appropriate therapy. Sinus bradycardia, 2nd-degree AV block, sinus arrest, pulmonary edema and/or severe hypothe-sion were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated with verapamil. with verapamil

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 dys-trophy and may prolong recovery from the neuromuscular blocking agent vecuronium. It may be necessary to decrease neuromuscular transmission and verapamil may result in additive negative effects on heart rate, attioventricular 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 may result in digitalis toxicity. In patients with hepatic cirrhosis, verapamil may reduce total body clearance and extraenal 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.



For the many faces of mild hypertension

References: 1. Data on file, Searle. 2. Edmonds D, Würth JP, Baumgart P, et al. References: 1. Data on file, Searle. 2. Edmonds D., Würth JP, Baumgart P, et al. Twenty-four-hour monitoring of blood pressure during calcium antagonist therapy. In: Fleckenstein A. Laragh SH, eds. *Hypertension—the Next Decade: Verapamil in Focus*. New York, NY: Churchill Livingstone; 1987:94-100. 3. Midtbø KA. Effects of long-term verapamil therapy on serum lipids and other metabolic parameters. *Am J Cardiol.* 1990;66:131-151. 4. Fagher B, Henningsen N, Huithén L, et al. Antihypertensive and renal effects of enalapril and slow-release verapamil in essential hypertension. *Eur J Clin Pharmacol.* 1990;39(suppl 1):S41-S43. 5. Schmieder RE, Messeril FH, Garavaglia GE, et al. Cardiovascular effects of verapamil in patients with essential hypertension. *Circulation.* 1987;75:1030-1036. 6. Midtbø K, Lauve O, Hals O. No metabolic side effects of long-term treatment with verapamil in hypertension. *Anglology.* 1988;39:1025-1029.

Disopyramide should not be given within 48 hours before or 24 hours after verapamil administra-tion. 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. Concomitant use of lithium and verapamil may result in an increased sensitivity to lithium (neurotoxicity), 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 carbanazepine concentrations during combined use. Rifampin may reduce verapamil bioavailability. Phenobarbital may increase verapamil clearance. Verapamil plasma levels of theophylline. Concomitant use of inhalation anesthetics and calcium antagonists needs careful titration to avoid excessive cardiovascular depression. Verapamil may potentiate the activity of neuromuscular 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 verapamil use.

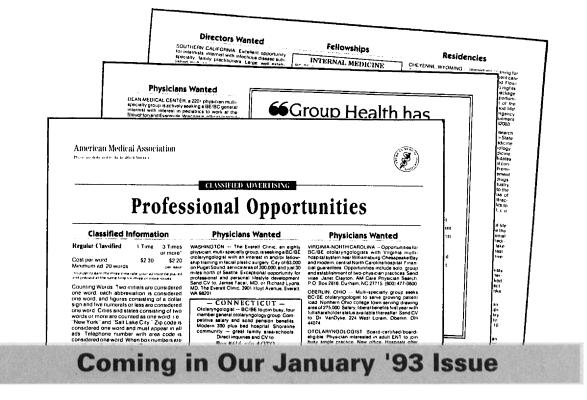
Netted: veripenin is exercice in previous (7.3%), dizziness (3.3%), nausea (2.7%), hypotension (2.5%), headache (2.2%), edema (1.9%), CHF, pulmonary edema (1.8%), fatigue (1.7%), dyspnea (1.4%), bradycardia: HR < 50/min (1.4%), AV block: total 1*,2*,3* (1.2%), 2* and 3* (0.8%), rash (1.2%), flushing (0.6%), elevated liver enzymes, reversible non-obstructive paralytic lieus. The following reactions, reported in 1.0% or less of patients, occurred under conditions where a causal relationship is uncertain: angina pectoris, atrioventricular dissociation, chest pain, claudication, myocardial infarction, papirations, purpura (vasculitis), syncope, diarrhea, dry mouth, gastrointestinal distress, gingival hyperplasia, ecchymosis or bruising, cerebrovascular accident, confusion, equilibrium disorders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somolence, arthralgia and rash, exanthema, hair loss, hyperkeratosis, macules, sweating, urticaria, Stevens-Johnson syndrome, erythema multiforme, blurred vision, gynecomastia, galactorrhea/hyperprolactinemia, increased urination, spotty menstruation, impotence. 2/13/92 • P92CA7196V

e & Co JAS

P92CA7233T



YOUR BEST WAY TO RECRUIT THE DOCTOR YOU NEED



- Monthly frequency
- Targeted audience
- All ad sizes
- Introductory offer discounts

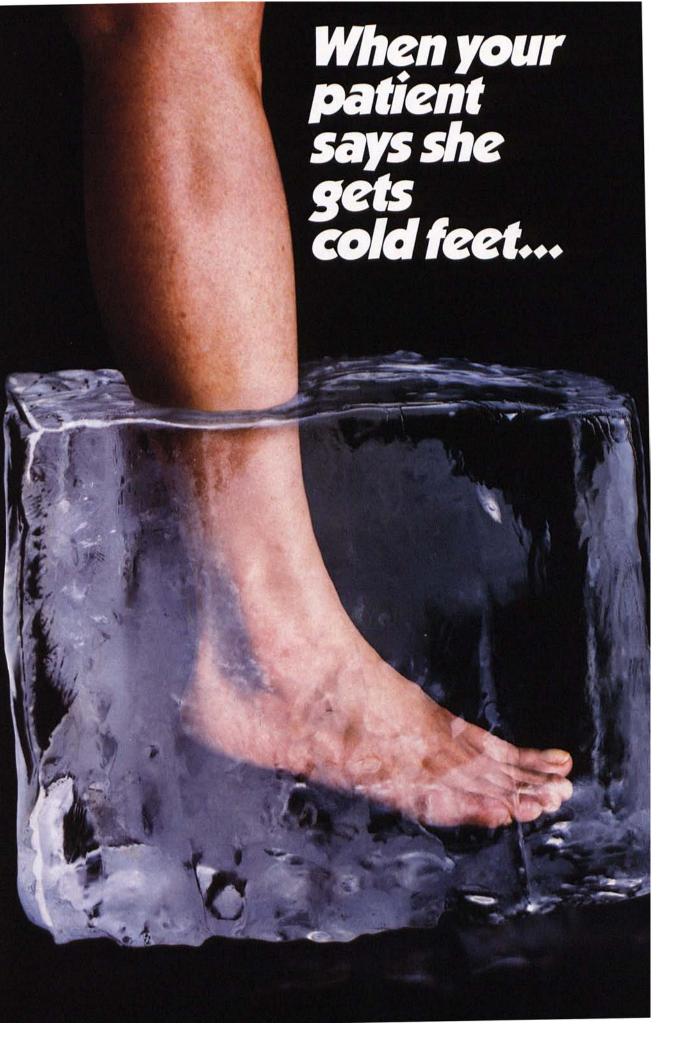
Find out first-hand the pulling power of classified advertising in the Specialty Journals of the AMERICAN MEDICAL ASSOCIATION. The **Archives of Family Medicine** reaches over 80,000 office- and hospital-based physicians. If you need a FP, GP or DO contact us to learn more about this exciting new source of recruiting.

Mail us, or FAX (813-445-9380) us your ad copy for a price quote. You'll find advertising in **Archives of Family Medicine** is surprisingly affordable. The January 1993 issue closing date is November 25th. Act today!

TAKE ADVANTAGE OF OUR INTRODUCTORY CLASSIFIED ADVERTISING OFFER!



Classified Department P.O. Box 1510, Clearwater, Florida 34617 Toll Free: (800) 237-9851 • Local: (813) 443-7666 • FAX: (813) 445-9380 For overnight delivery: 1001 S. Myrtle Ave., Ste. 7, Clearwater, Florida 34616



References: 1. Beach KW, Bedford GR, Bergelin RO, et al. Progression of lowerextremity arterial occlusive disease in type II diabetes mellitus. Diabetes Care. 1988;11(6):464-472. 2. Chien S. Determinants of blood viscosity and red cell deformability. Abstracts: 6, International Symposium on Filterability and Red Blood Cell Deformability, Göteborg, Sweden, September 11-13, 1980. **3**. Hanss MF. Filtration methods. Abstracts: 16, International Symposium on Filterability and Red Blood Cell Deformability, Göteborg, Sweden, September 11-13, 1980. **4**. Lowe GDO, Drummond MM, Forbes CD, et al. Blood and plasma viscosity in prediction of venous thrombosis. Abstracts: 77, International Symposium on Filterability and Red Blood Cell Deformability, Göteborg, Sweden, September 11-13, 1980 5. Perego MA, Sergio G, Artale F. Haemorrheological aspects of pathophysiology and clinical features of peripheral occlusive arterial disease. Pharmatherapeutica 1983;3(1):91-101. 6. Störmer B, Kleinschmidt K, Loose D, Kremer K. Rheological (1) Charles Control (Control (Contro) (Control (Contro) (Control (Contro) (Contro) (Contro Baldwin D, Hamilton J, Dion J. Treatment of claudication with pentoxifylline: are benefits related to improvement in viscosity? J Vasc Surg. 1987;6(3):211-216. Schmalzer EA, Chien S. Filterability of subpopulations of leukocytes: effect of pentoxifylline. Blood. 1984;64(2):542-546. 11. Ernst E, Hammerschmidt DE, Bagge U, Matrai A, Dormandy JA. Leukocytes and the risk of ischemic diseases. JAMA. 1987;257(17):2318-2324. 12. Currie M, Simel D, Christenson R, et al. JAMA. 1987;257(17):2518-2524. 12. Currie in, Simer D, Christenson R, et al. Evidence for pentoxifylline effects on neutrophils *in vivo* by correlations of de-creased claudication, coagulation activity, whole blood viscosity, and elastase pro-teinase inhibitor complexes. Borrowed from the Society for Leukocyte Biology. Marco Island, Fla; 1989. 13. Ehrly AM. Effects of orally administered pentoxifylline on muscular oxygen pressure in patients with intermittent claudication. IRCS Med Sci. 1982;10(5):401-402. 14. Lindgärde F, Jelnes R, Björkman HJ, et al. Conservative drug treatment in patients with moderately severe chronic occlusive peripheral arterial disease. Circulation. 1989;80(6):1549-1556.

Trental[®] 400 mg Tablets (pentoxifylline)

A brief summary of the Prescribing Information follows.

INDICATIONS AND USAGE:

Trental[®] (pentoxifylline) is indicated for the treatment of patients with intermittent claudi-cation on the basis of chronic occlusive arterial disease of the limbs. Trental[®] (pentoxifylline) can improve function and symptoms but is not intended to replace more definitive therapy, such as surgical bypass, or removal of arterial obstructions when treating peripheral vascular disease

CONTRAINDICATIONS:

Trental* (pentoxifylline) should not be used in patients with recent cerebral and/or retinal hemorrhage, or in patients who have previously exhibited intolerance to this product or methylxanthines such as caffeine, theophylline, and theobromine.

PRECAUTIONS:

General: Patients with chronic occlusive arterial disease of the limbs frequently show other manifestations of arteriosclerotic disease. Trental® (pentoxifylline) has been used safely for treatment of peripheral arterial disease in patients with concurrent coronary artery and cerebrovascular diseases, but there have been occasional reports of angina, hy-potension, and arrhythmia. Controlled trials do not show that Trental® (pentoxifylline) causes such adverse effects more often than placebo, but, as it is a methylxanthine deriva-tive, it is possible some individuals will experience such responses. Patients on warfarin should have more frequent monitoring of prothrombin times, while patients with other risk factors complicated by hemorrhage (e.g., recent surgery, peptic ulceration, cerebral and/or retinal bleeding) should have periodic examinations for bleeding including hematocrit and/or hemoglobin.

Drug Interactions: Although a causal relationship has not been established, there have been reports of bleeding and/or prolonged prothrombin time in patients treated with Trental* (pentoxifylline) with and without anticoagulants or platelet aggregation inhibitors. Trental" (pentoxitylline) with and without anticoagulants or platelet aggregation inhibitors. Patients on warfarin should have more frequent monitoring of prothrombin times, while patients with other risk factors complicated by hemorrhage (e.g., recent surgery, peptic ul-ceration) should have periodic examinations for bleeding including hematocrit and/or hemoglobin. Trental" (pentoxifylline) has been used concurrently with antihypertensive drugs, beta blockers, digitalis, diuretics, antidiabetic agents, and antiarrhythmics without observed problems. Small decreases in blood pressure have been observed in some pa-tients treated with Trental" (pentoxifylline); periodic systemic blood pressure monitoring is recommended for patients receiving concomitant antihypertensive therapy. If indicated, dosage of the antihypertensive agents should be reduced.

Carcinogenesis, Mutagenesis and Impairment of Fertility: Long-term studies of the carcinogenic potential of pentoxifylline were conducted in mice and rats by dietary administration of the drug at doses up to approximately 24 times (570 mg/kg) the maximum recommended human daily dose (MRHD) of 24 mg/kg for 18 months in mice and 18 months in rats with an additional 6 months without drug exposure in the latter. No carcinogenic potential for pentoxifylline was noted in the mouse study. In the rat study, there was a statistically significant increase in benign mammary fibroadenomas in females in the high dose group (24 x MRHD). The relevance of this finding to human use is uncertain since this was only a marginal statistically significant increase for a tumor that is common in aged rats. Pentoxifylline was devoid of mutagenic activity in various strains of Salmonella (Ames test) when tested in the presence and absence of metabolic activation.

Pregnancy: Category C. Teratogenic studies have been performed in rats and rabbits at oral doses up to about 25 and 10 times the maximum recommended human daily dose (MRHD) of 24 mg/kg, respectively. No evidence of fetal malformation was observed. Increased resorption was seen in rats at 25 times MRHD. There are, however, no adequate a studies to actual data the second and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, Trental* (pentoxifylline) should be used during pregnancy only if clearly needed.

Nursing Mothers: Pentoxifylline and its metabolites are excreted in human milk. Because of the potential for tumorigenicity shown for pentoxifylline in rats, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother

Pediatric Use: Safety and effectiveness in children below the age of 18 years have not been established.

ADVERSE REACTIONS:

Clinical trials were conducted using either controlled-release Trental® (pentoxifylline) tablets for up to 60 weeks or immediate-release Trental® (pentoxifylline) capsules for up to 24 weeks. Dosage ranges in the tablet studies were 400 mg bid to tid and in the capsule studies, 200-400 mg tid.

The table summarizes the incidence (in percent) of adverse reactions considered drug-related, as well as the numbers of patients who received controlled-release Trental® (pentoxi-fylline) tablets, immediate-release Trental® (pentoxifylline) capsules, or the corresponding placebos. The incidence of adverse reactions was higher in the capsule studies (where dose-related increases were seen in digestive and nervous system side effects) than in the tablet studies. Studies with the capsule include domestic experience, whereas studies with the controlled-release tablets were conducted outside the U.S. The table indicates that in the tablet studies few patients discontinued because of adverse effects.

INCIDENCE	(%)	OF	SIDE	EFFECTS
-----------	-----	----	------	---------

	Controlle Tab			e-Release sules
	Commercially Available		Used Only for Controlled Clinical Trials	
	Trentai*	Placebo	Trental*	Placebo
(Numbers of Patients at Risk)	(321)	(128)	(177)	(138)
Discontinued for Side Effect	3.1	0	9.6	7.2
CARDIOVASCULAR SYSTEM				
Angina/Chest Pain	0.3	_	1.1	2.2
Arrhythmia/Palpitation		_	1.7	0.7
Flushing	—	—	2.3	0.7
DIGESTIVE SYSTEM				
Abdominal Discomfort		—	4.0	1.4
Belching/Flatus/Bloating	0.6		9.0	3.6
Diarrhea	_		3.4	2.9
Dyspepsia	2.8	4.7	9.6	2.9
Nausea	2.2	0.8	28.8	8.7
Vomiting	1.2		4.5	0.7
NERVOUS SYSTEM				
Agitation/Nervousness	_	_	1.7	0.7
Dizziness	1.9	3.1	11.9	4.3
Drowsiness	—		1.1	5.8
Headache	1.2	1.6	6.2	5.8
Insomnia		—	2.3	2.2
Tremor	0.3	0.8	_	—
Blurred Vision	—	_	2.3	1.4

Trental* (pentoxifylline) has been marketed in Europe and elsewhere since 1972. In addition to the above symptoms, the following have been reported spontaneously since mar-keting or occurred in other clinical trials with an incidence of less than 1%; the causal relationship was uncertain: Cardiovascular – dyspnea, edema, hypotension. Digestive – anorexia, cholecystitis, constipation, dry mouth/thirst.

Nervous - anxiety, confusion, depression, seizures

Respiratory – epistaxis, flu-like symptoms, laryngitis, nasal congestion. Skin and Appendages – brittle fingernails, pruritus, rash, urticaria, angioedema. Special Senses – blurred vision, conjunctivitis, earache, scotoma. Miscellaneous – bad taste, excessive salivation, leukopenia, malaise, sore throat/swollen neck glands, weight change.

A few rare events have been reported spontaneously worldwide since marketing in 1972. Although they occurred under circumstances in which a causal relationship with pentoxi-fylline could not be established, they are listed to serve as information for physicians: Cardiovascular — angina, arrhythmia, tachycardia, anaphylactoid reactions; Digestive — hepatitis, jaundice, increased liver enzymes; and Hemic and Lymphatic— decreased serum fibrinogen, pancytopenia, aplastic anemia, leukemia, purpura, thrombocytopenia. OVERDOSAGE:

Overdosage with Trental[®] (pentoxifylline) has been reported in children and adults. Symptoms appear to be dose-related. A report from a poison control center on 44 pa-tients taking overdoses of enteric-coated pentoxifylline tablets noted that symptoms usu-ally occurred 4-5 hours after ingestion and lasted about 12 hours. The highest amount in-

gested was 80 mg/kg; flushing, hypotension, convulsions, somnolence, loss of conscious-ness, fever, and agitation occurred. All patients recovered. In addition to symptomatic treatment and gastric lavage, special attention must be given to

supporting respiration, maintaining systemic blood pressure, and controlling convulsions. Activated charcoal has been used to adsorb pentoxifylline in patients who have overdosed.

DOSAGE AND ADMINISTRATION:

DOSAGE AND ADMINISTRATION: The usual dosage of Trental* (pentoxifylline) in controlled-release tablet form is one tablet (400 mg) three times a day with meals. While the effect of Trental* (pentoxifylline) may be seen within 2 to 4 weeks, it is recom-mended that treatment be continued for at least 8 weeks. Efficacy has been demonstrater in double-blind clinical studies of 6 months' duration. Digestive and central nervous system side effects are dose-related. If patients develop these side effects it is recommended that the dosage be lowered to one tablet twice a day (800 mg/day). If side effects persist at thi lower dosage, the administration of Trental* (pentoxifylline) should be discontinued.

Edition 7/91 Trental* REG TM HOECHST AG

Hoechst-Roussel Pharmaceuticals Inc. nervillo, New Jersey 08876-1258



The name and logo HOECHST are registered trademarks of Hoechst AG.

Q73273-192

Patients with intermittent claudication may report other symptoms first:

- Cold feet
- Paresthesia and numbness
- Hair loss and trophic skin changes
- Delayed healing of superficial injuries

You're most likely to hear them from:

- Patients over 50
- Type II diabetics

- Smokers of more than 25 years¹
- Hypertensives with elevated triglyceride and depressed HDL levels

Increases white cell flexibility and inhibits

neutrophil adhesion and activation

⁺ The clinical significance, if any,

of these laboratory findings

has not been established.

Therapy must be continued

to sustain improvement

TRENTAL® increases pain-free walking distance and improves microcirculatory blood flow^{2-14*†}:

- Lowers whole blood viscosity
- Increases red cell flexibility
- Lowers red cell aggregation
- Lowers platelet aggregation
- Lowers fibrinogen levels

3x3 = Success:

- Patients may improve gradually over 3 months[‡]
- The usual dosage of TRENTAL® is one 400-mg tablet 3 times a day, with meals

Excellent safety profile:

- TRENTAL® has been used concurrently with antihypertensive, beta-blocker, digitalis, diuretic, antidiabetic and antiarrhythmic regimens without observed problems
- Patients on warfarin should have more frequent monitoring of prothrombin time; periodic systemic blood pressure monitoring is recommended for patients receiving concomitant antihypertensive therapy

(pentoxifylline)

The only proven-effective agent for intermittent claudication — a symptom of peripheral arterial disease

*TRENTAL® can improve function and symptoms but is not intended to replace more definitive therapy such as surgery.

While the effect of TRENTAL® may be seen within 2 to 4 weeks, it is recommended that treatment be continued for at least 8 weeks.

D 1991 by Hoechst-Roussel Pharmaceuticals Incorporated. Please see references and brief summary of prescribing information on following page.

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 **57,000,000** prescriptions written for once-daily verapamil SR^t over the past 5.5 years.





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 Pharmaceuticals and G.D. Searle & Co.

Please see back for brief summary of prescribing information

ONCE-DAILY (erapamil HCI)^{Sustained-} Tablets

Unsurpassed dosage flexibility





The recommended starting/maintenance dose

240 ma For patients who require a step up in dosage

120 ma

For elderly or small-stature patients who require lower doses

Knoll Pharmaceuticals A Unit of BASF K&F Corporation A Unit of BASE Kar Corp. Whippany, New Jersey 07981



© 1992, BASF K&F Corporation 12073/8-92 Printed in USA

Brief Summary of Prescribing Information

CONTRAINDICATIONS: 1) Severe left ventricular dysfunction (see WARNINGS), 2) Hypotension (less 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., Wolff-Parkinson-White, Lown-Ganong-Levine syndromes). 6) Patients with known hypersensitivity to verapamil hydrochloride.

Patients with known hypersensitivity to verapamil hydrochloride. WARNINGS: Heart Failure: ISOPTIN should be avoided in patients with severe left ventricular dys-function. 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 HC) 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 therefore prudet. Accessory Bypass Tract (Wolf) Parkinson-While): Patients with paroxysmal and/or chronic atrial flutter or atrial ibinilation and a coexisting accessory AV pathway may develop increased antegrade conduction across the accessory pathway producing a very rapid venticular torial torillation 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 D.C.-cardioversion. Artivenentricular Block: The effect of verapamil on AV conduction and the SA node may cause asymptomatic 1st degree AV block and transient bradycardia. Higher degrees of AV block, while infrequent (0.8%), may require a reduction in dosage or, in rare instances, discontinua-tion of verapamil HCI: **Patiens with Hyperrophic Cardiomyopaty (HSS)**; Athough verapamil has been used in the therapy of patients with HSS, 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 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.

of verapamil may be warranted. Drug 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 car-diac 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 in digitalized patients as 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 Administered concomitantity with oral antihy-pertensive agents (e.g., vasodilators, angiotensin-converting enzyme inhibitors, diuretics, alpha and beta adfrenergic blockers) will usually have an additive effect on lowering blood pressure. Patients receiving these combinations should be appropriately monitored. Anliarrhytimic Agents: Disopyramide: Disopyramide chouse the concomitant administration of flecanide and verapamil may result in additive negative inotropic effect and prolongation of atrioventricular conduction. Quindine: in patients with hypertrophic cardiomyopathy (IHSS), concomitant use of verapamil and nitrates as well as clinical experience suggest beneficial interactions. Cimetidine: Variable results on relatance when obtained in acute studies of healthy volunteers, clearance of verapamil and intrates as well as clinical experience suggest beneficial interactions between oral verapamil and intrates as well as clinical experience suggest beneficial interactions between oral verapamil and intrates as well as clinical experience suggest beneficial interactions between oral verapamil and intrates as well as clinical experience suggest beneficial interactions between oral verapamil and intumin have been reported.

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 Ferlilty**: 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. 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 it 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%, Ilushing 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, arthrafgia and rash, blurred vision, cerebrovascular accident, chest pain, claudication, confusion, diarrhea, dry mouth, ecchymosis or bruising, equilibrium disorders, erythema multiforme, exanthema, gastroin-testinal distress, gingival hyperplasia, gynecomastia, hair loss, hyperkeratosis, impotence, increased urination, insomnia, macules, muscle cramps, myocardial infarction, palpitations, paresthesia, psy-chotic symptoms, purpura (vasculitis), stakiness, somnolence, spotty menstruation, Steven-Johnson syndrome, sweating, syncore, uriciaria. 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 HGI, 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 obvision.

OVERDOSAGE: Treatment of overdosage should be supportive. Beta-adrenergic stimulation or paren-teral 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-monary resuscitation.

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 sately 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: 2. 240 me each morning.

b

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.

Printed in U.S.A. 2767/2-90

FOR CHRONIC ARTHRITIS

EXPECT A REDUCTION IN JOINT PAIN AND TENDERNESS

Color-enhanced 3-D CT image of OA hip with joint space narrowing and marginal osteophytes. Supplied by David W. Stoller, MD, of California Advanced Imaging.

As with other NSAIDs, the most frequent complaints are gastrointestinal.

Please see brief summary of prescribing information on adjacent page.





c) 1992 Syntex Puerto Rico, Inc. NP93017

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, noninvasive 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.



165 Cadman Plaza East, Brooklyn, New York 11201 (718) 596-1043 • Fax (718) 802-1039

Thera Summary: Cartification income plantics with have that ellergic reactions to holmer NSADS induce the synthesis with have that ellergic reactions to before starting therapy. If such as which have that ellergic reactions to before starting therapy. If such as planting, with n history of such reactions, question patients for asthma, nasal polyps, urticaria, and hypotension associated with NSADB before starting therapy. If such as planting, with on Nithobe warming all profound can occur at any timme, with the Nithobe warming all profound can occur any time, with the Nithobe warming all profound can occur any time, with the Nithobe warming all profound can occur any time, with the Nithobe warming all profound can occur any time, with the Nithobe warming all profound can occur any time, with the Nithobe warming all profound the synthesis of the Nithobe warming the synthesis and the synthesis of the Nithobe warming of patients not at risk of developing peptic ulcaration and bleeding the synthesis of the synthesis of the Nithobe warming all profound the profound the synthesis and ther risk factors known to be associated with peptic ulcaration and bleeding the synthesis of the synthesis and bleeding the synthesis all profound the profound the synthesis and bleeding the synthesis all profound the profound the synthesis and bleeding the synthesis all profound the profound the synthesis and bleeding the synthesis all profound the synthesis of the synthesis and bleeding the synthesis all profound the synthesis of the synthesis and bleeding the synthesis all profound the synthesis of the synthesis and bleeding the synthesis all profound the synthesis of the synthesis and the synthesis all prof Incidence of reported reaction 3%-9%. Where unmarked, incidence less than 3%. SYNTEX US, patent nos. 3,904,682, 3,998,966 and others. c 1991 Syntex Puerto Rico, Inc. Rev. 39 September 1990

NAPROSYN° (NAPROXEN) 500 mg tablets

THEY WERE CAREFREE...

They were raised in a simpler time, before sugar-free and fat-free. Now hypertension, often with elevated cholesterol and blood sugar, enters the picture...

NOW THEY'RE CONCERNED...

Today's hypertensives with new concerns... THE CARDURA

*Adapted from the interim (12 months) results of the Treatment of Mild Hypertension Study, a randomized, double-blind, placebo-controlled trial of a nutritional-hygienic regimen along with various drug therapies. All drugs (except acebutolol) were given initially in low doses. If the patient showed a diastolic blood pressure more than 95 mm Hg on three successive follow-up visits, the dosage was doubled. If blood pressure remained elevated, a second drug (chlorthalidone, except for chlorthalidone group, which was given enalapril) was added. Mean diastolic blood pressure was lowered in the various drug groups with median dosages, as follows: doxazosin (2 mg/day), 12.0 mm Hg; enalapril (5 mg/day), 12.2 mm Hg; chlorthalidone (15 mg/day), 13.1 mm Hg; and acebutolol (400 mg/day), 13.7 mm Hg (n=847; P<0.01 vs placebo).

In=128; P<0.01 vs placebo. In a pooled analysis of placebo-controlled studies with about 300 predominantly normocholesterolemic patients per treatment group, CARDURA produced a small decrease in total cholesterol (-2.7%) and LDL cholesterol (-4.3%) and a small increase in the HDL/total cholesterol ratio (+4.3%).

Adapted from Lehtonen et all (n=77; after 26 weeks: P<0.001 compared with week 0 for blood pressure and insulin, P<0.05 compared with week 0 for glucose).

GENERATION

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

<u>Choose CARDURA for blood pressure control that</u> <u>doesn't jeopardize blood lipids.</u>

In the Treatment of Mild Hypertension Study, CARDURA lowered diastolic blood pressure (mean 12.0 mm Hg) as effectively as enalapril, chlorthalidone, and acebutolol¹

CARDURA lowered blood pressure with a small increase in the HDL/total cholesterol ratio (+2.4%)^{*} in the same study.^{1†} The clinical significance of these changes is uncertain. Cholesterol is just one parameter to consider when selecting the best individualized therapy for a given patient

<u>Choose CARDURA for blood pressure control that</u> <u>doesn't compromise blood sugar.</u>

CARDURA controlled diastolic blood pressure without an adverse effect on glucose tolerance or insulin control^{2‡}

CARDURA is well tolerated. In placebo-controlled studies, only three common side effects were reported significantly more often than placebo: dizziness, somnolence, and fatigue.[§]

Only 2% of patients discontinued therapy due to adverse effects the same as with placebo

¹ These were generally mild and transient. Syncope has been reported, but rarely (<1%).</p>





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

CARDURA (doxazosin 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 quinazolines (e.g. prazosin, terazosin). WARNINGS

Syncope and "First-dose" Effect:

Doxazosin, like other alpha-adrenergic blocking agents, can cause Dozazosin, like other alpha-adrenergic blocking agents, can cause marked hypotension, especially in the upriph position, with syncope and other postural symptoms such as dizziness. Marked orthostalic effects are most common with the first dose but can also occur when there is a dosage increase, or it 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 added with caution. Patients being titrated with doxazosin should be cautioned to avoid

Patients being titrated with doxazosin should be cautioned to avoid

Patients being titrated with doxazosin should be caulioned to avoid situations where injury could result should syncope occur. 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 subjects could tolerate 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 perimetion of the study. In this study 2 of the normotensive subjects termination of the study. In this study 2 of the normotensive subjects experienced syncope. Subsequent trials in hypertensive patients always began doxazosin dosing at 1 mg/day resulting in a 4% incidence of postural

began boxaccesh ocsain and in my resulting in the measure of posterior 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 16 mg/day. If syncope occurs, the patient should be placed in a recumbent position and treated supportively as necessary. PRECAUTIONS

General

Veneral 1. Orthostatic Hypotension: While syncope is the most severe orthostatic effect of CARDURA, other symptoms of lowered blood pressure, such as dizziness, lightheadedness, or verigo, can occur, especially at initiation of therapy or at the time of dose increases. These were common in clinical trials, occurring in up to 23% of all patients treated and causing 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

Patients in occupations in which orthostatic hypotension could be dangerous should 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:

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

clinical experience with CARDURA in patients with these conditions. 3. Leukopenia/Neutropenia: Analysis of hematologic data from patients receiving CARDURA in controlled clinical trials showed that the mean WBC (N=474) and mean neutrophi counts (N=419) 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 2400 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. Information for Patients:

Patients should be made aware of the possibility of syncopal and orthostatic Patients should be made aware of the possibility of syncopal and orthostatic 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 symptoms of lowered blood precope occur although these symptoms are not always orthostatic, and to be careful when rising from a sitting or lying position. If dizziness, lightheadedness, or palpitations are bothersome they should be reported to the physician, so that dose adjustment can be considered. Patients should also be told that drowsiness or somnolence can occur with doxazosin, requiring caution in people who must drive or operate heavy machinery. people who must drive or operate heavy machinery.

people who must drive or operate heavy machinery. Drug Interactions: 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 indomethacin. 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 anti-inflammatory drugs. Drug/Laboratory test Interactions: None known.

None known. Cardiac Toxicity in Animals:

Caratae Toxicity in Animats: 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

These lesions were not observed after 12m on this atory in entro species. These lesions were not observed after 12m on this of oral dosing in doogs 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. **Carcinogenesis, Mutagenesis and Impairment of Ferlility:** Chronic dietary administration (up to 24 months) of doxazosin mesylate at maximally tolerated concentrations (highest dose 40 mg/kg: about 150 times the 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 administrative) studies revealed no drug, however, was compromised by the failure to use a maximally tolerated dose of doxazosin. Mutagenicity studies revealed no furgo or metabolite-related effects at either chromosomal or subchromosomal levels. Studies in rats showed reduced ferlility 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 withdrawal.

drug withdrawal.

drug withdrawal. Pregnancy Teratogenic 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 prenancy only it clearly meeded. pregnancy only if clearly needed.

pregnancy only in 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.

AND RENSION CONTROL THEW GENERALD

Nursing Mothers Studies In lactating rats given a single oral dose of 1 mg/kg of [2-"C]-doxazosin indicate that doxazosin accumulates in rat breast milk with a maximum 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 administered to a nursing mother.

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

CARDURA 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

in only 7% of patients, in placebo-controlled studies adverse effects occurred in 49% and 40% of platents in the dovazosin 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/faligue, and some heart rate disturbance, each about 0.7%. In controlled clinical trials directly comparing CARDURA to placebo there was no significant difference in the incidence of side effects, except for diztaness (including nectural), weight gains, somplage and

was no significant difference in the incidence of side effects, except for dizziness (including postural), weight gains, 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/grobably 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

		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%

References: 1. 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;151:1413-1423. 2. Lehtonen A, the Finnish Multiconter Study Group. Lowered levels of serum insulin, glucose, and cholesterol In hypertensive patients during treatment with doxazosin. *Curr Ther Res.* 1000;27:278-294. 1990:47:278-284

		DOXAZOSIN (N=339)	PLACEBO (N=336)
MUSCULOSKELETAL:	Arthralgia/Arthritis	1%	0%
	Muscle Weakness	1%	0%
	Mvalgia	1%	0%
	wyayaa	1 70	070
CENTRAL &	Headache	14%	16%
PERIPHERAL N.S.:	Paresthesia	1%	1%
	Kinetic Disorders	1%	0%
	Ataxia	1%	0%
	Hypertonia	1%	0%
	Muscle Cramps	1%	0%
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 Insomnia	1% 1%	1% 1% 1%
	Sexual Dysfunction	2%	
GASTROINTESTINAL:	Nausea Diarrhea Constipation Dyspepsia Flatulence Abdominal Pain	3% 2% 1% 1% 0%	4% 3% 1% 1% 1% 2%
	Vomiting	0%	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%

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, aglitation, 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: Aurous System: pallor; Metabolic: thirst, gout, hypokalemia, Hematopoletic hymphadenopathy, purpura; Reproductive System: breast pain; Skin Disorders: alopecia, dry skin, eczema; Central Nervous System: paresis, trenor, Wichling, confusion, migraine, impaired concentration; Psychiatric paroniria, amesia, emotional tability, abnormal thinking, depersonalization *Special Sense*: parsomi, acrateche, taste perversion, photophobia, abnormal lacrimation; *Gastrointestinal System*: increased appetite, anorexia, fecal incontinence, pastroenteritis; Respiratory System: broncopasm, sinuslib, couphing, nharyngitis; *Urinary System*: renal calculus; General Body System: hol couphing, pharyngitis; *Urinary System*: renal calculus; *General Body System*: hol flushes, back pain, infection, fever/rigors, decreased weight, influenza-like

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

OVENDOSAGE The oral L0₅₀ of doxazosin is greater than 1000 mg/kg in mice and rafs. The most likely manifestation of overdosage would be hypotension, for which the usual treatment would be intravenous infusion of fluid. As doxazosin is highly protein bound, dialysis would not be indicated. DOSAGE AND ADMINISTRATION DOSAGE MUST BE INDIVIDUALIZED. The initial dosage of CARDURA in Duestensive patients in the plane one daily. This treating doce is

hypertensive patients is 1 mg given once daily. This starting dose is intended to minimize the frequency of postural hypotension and first dose syncope associated with CARDURA. Postural effects are most likely lo occur between 2 and 6 hours after a dose. Therefore blood pressure dose occur between 2 and 6 hours after a dose. Therefore blood 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. 6 mg and 16 mg to achieve the desired reduction in blood pressure. Increases in dose beyond 4 mg Increase the likelihood of excessive postural effects including syncept-postural dizziness/vertigo, postural hypotension. At a titrated dose of 16 mg once daily the frequency of postural effects is about 12% compared to 3% for placebo. HOW SUPPLIED CARDURA (lowagosin mesvlate) is available as colored tables for ofal

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

(Wnite), 2 mg (yeilow), 4 mg (orange) or 8 mg (green) of the active constituent, lowazosin. CARDURA® TABLETS are available as 1 mg (white), 2 mg (yellow), 4 m9 (orange) and 8 mg (green) scored tablets. Bottles of 100: 1 mg (NDC 0049-2750-66), 2 mg (NDC 0049-2760-66). 4 mg (NDC 0049-2770-66), 8 mg (NDC 0049-2780-66) Recommended Storage: Store below 86°F(30°C). CAUTION: Federal law prohibits dispensing without prescription. 65-4538-00-0 Issued Nov 19²³



@1992. Pfizer Inc.

Printed in USA

January 1992



Levonorgestrel 4 and ethinyl estradiol tablets-Triphasic regimen 21- and 28-day regimens

THE OC TO START WITH BECAUSE SHE'LL STAY WITH IT

IN BRIEF: TRIPHASIL* - 6 brown tablets containing 0.050 mg levonorgestrel with 0.030 mg ethinyl estradiol; 5 white tablets containing 0.075 mg levonorgestrel with 0.040 mg ethinyl estradiol; 10 light-yellow tablets containing 0.125 mg levonorgestrel with 0.030 mg ethinyl estradiol (7 light-green tablets containing inert ingredients are included in the 28-day regimen) — Triphasic regimen. Indications and Usage — TRIPHASIL* is indicated for the prevention of pregnancy in women who elect to use oral contraceptives (IOC) as a method of contraception. Contraceptions — OCs should not be used in women with any of the following: 1. Thrombophiebits or

Contracting trues (USS) as a memo of contractiguou. Contracting trues (USS) as a memo of contractiguou. Contracting trues (Contracting trues) and the contracting trues of the contracting true of the contracting trues of the contracting true of the contracting trues of the contracting true of the contract Known or suspected pregnancy.

Warnings

Cigarette smoking increases the risk of serious cardiovascular side effects from oral-contra-ceptive use. This risk increases with age and with heavy smoking (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women who use oral contraceptives id he strongly advised not to smoke.

should be strongly advised not to smoke. Use of CCs is associated with increased risks of serious conditions including myocardial infarction, thrombo-motality is very small in healthy women without underlying risk actors. Morbidly/morality risk increases significantly if other risk factors present (i.e. hypertension, hyperingion and progestogen than those commonly used today. Effect of long-term use of lower estrogen and progestogen tormulations is yet to be determined.) 1. Thromboembolic Disorders and Other Vascular Problems—— MYOCARDAL, INFARCTION (MI). An increased risk of MI has been attributed to CU use. Fisk is primarily in smokers or women with other underlying risk factors for coronary-attery disease (i.e. hypertension, hypercholesterolemia, morbid obesity, diabetes). Fields we risk of the rar attack for curren CC users is estimated to be two to six, risk is vary tow under the age of 30. Smoking combined with CC use contributes substantially to incidence of MIs in women in their mid-thring test for coronary-attery disease (i.e. hypertension, hypercholesterolemia, morbid obesity, diabetes). Fields we risk of the rar attack for curren CC users is estimated to be two to six, risk is vary tow under the age of 30. Smoking combined with CC use contributes substantially to incidence of MIs in women in their mid-thrites or older with smoking accounting for majority of excess cases. Morality ruses associated with circulatory disease increase substantially in smokers over the age of 35 and nonsmokers over the age of 40 among OC users. OCs may compound effects of well-known risk factors are associated with increase biod pressure among users is gen Wartings, Simitar offects on risk factors are associated with nicrease biod pressure among users is dew Wartings, Simitar offects on risk factors are associated with nicrease lative risk was somewhat lower, about 3 for new cases and about 45 for new cases requiring hospitalization. Thromboembolic disease is lative with predisposing conditions for venous thrombooks and w Use of OCs is associated with increased risks of serious conditions including myocardial infarction, thrombo

estrogen. PERSISTENCE OF RISK OF VASCULAR DISEASE. Two studies have shown persistence of vascular disease

Tensis Tende OF INSA OF VASUOLAN DISEASE, we suddus have shown persistence for ascular disease Tisk for ever-users of OCS. In a U.S. study Mi fisk after OC discontinuation persists for at least 9 years in women 40-49 years who had used OCS for five or more years, increased risk was not demonstrated in other age groups. In a study in Groat Birtian, the risk of developing corebrovascular disease persisted for at least 9 years atter OCs stopped, although excess risk was very small. Both studies used OC formulations with 50 micrograms or higher estrogens.

Castingtes of Mortality from Contraceptive Use — A study using data from several sources concluded that with the exception of OC users 35 and older who smoke and 40 and older who do not smoke, mortality associated with all methods of birth control is less than that associated with olidbirth. The possibility of increased mortality tisk with age for OC users is based on data from the 1970s — but reported in 1983. However, current practice involves use of lower estrogen dose formulations combined with careful restriction of OC use to women without the various risk factors listed in this labeling.

The various risk factors listed in this labeling. Changes in practice and now data suggesting that cardiovascular disease risk with OCs may be less than previously observed prompted the Fertility and Maternal Health Drugs Advisory Committee to review the topic in 1999. The Committee concluded that although cardiovascular-disease risks may be increased with OC use atter age 40 in healthy nonsnokers (seen with newer low-dose formulations), practer potential health risks are associated with pregnancy in older women and with the alternative surgical and medical procedures which may be necessary it effective, acceptable contraception is not available. The Committee concluded that the benefits of 0C use by healthy nonsmoking women over 40 may outweigh the possible risks. Older women, as all women who take OCs, should use the lowest possible effective dose

mulation

formulation. 3. Carcinoma of the Reproductive Organs – Numerous epidemiological studies have looked at the incidence of breast, endometrial, ovarian and convical cancer in women using OCs. Overwhelming evidence suggests that OC use is not associated with an increase in risk of developing breast cancer, regardless of the age and parity of litts: use or with most of the marketed brands and doses. The Cancer and Steroid Hormone (CASH) study also showed no latent effect on breast cancer risk for at least a decade following (ong-term use. A few studies show a sliphtly increased relative risk of developing breast cancer, although the methodology of these studies, including differences in examination of users and nonusers, and in age at start of use, has been questioned. Some studies suggest that OC use is associated with an increased risk of cervical intraopithelial neoplasia in some populations of women. However, controversy continues about the extent to which such findings may be due to differences in sexual beandwich and other factors. In spite of many studies of the relationship between OC use and breast and cervical cancers, a cause and effect relationship has not been established. 4. *Appalic Neoplasia*

A Hopsitic Neoplasia — Benign hepatic adenomas are associated with OC use, although incidence is rare in the U.S. Indirect calculations estimate attributable risk to be in the range of 3.3 cases/100,000 for users, a risk that increases after four or more years of use. Rupture of rare, benign, hepatic adenomas may cause death through Intra-abdominal hemorrhage.

Autominial homormage. Artish studies have shown an increased risk of hepatocellular carcinoma in long-torm (⇒ 8 years) OC users: these cancers are extremely rare in the U.S. and attributable risk (excess incidence) of liver cancers in OC users approaches less than one per million users.

5 Ocular Losions — There are clinical case reports of retinal thrombosis with OC use. Discontinue OCs if there is unexplained partial or complete loss of vision, onset of proptosis or diplopia, papilledema, or retinal vascular losions; undertake appropriate diagnostic and therapoutic measures immediately.

Iesions: undertake appropriate diagnostic and therapoutic measures immediately 6. Oral Contraceptive Use Before or During Early Pregnancy — Extensive epidemiological studies revealed no increased risk of birth defects when OCs used prior to pregnancy. Studies do not suggest a teratogenic effect, particularly insofar as cardiac anomalies and limb reduction defects are concerned, when taken inadvertently during early pregnancy. Of undered withdrawal bleeding should not be used as a pregnancy test. Do not use OCs during pregnancy. Of use, if patient has not adhered to prescribed schedule, consider pregnancy at time of first missed period. Discontinue OC if pregnancy candidation and users of schedule, consider pregnancy at time of OCs and estrogens; more recent studies reported an increased lifetime relative risk of galibladder surgery in users of OCs and estrogens; more recent studies reborted to prescribed schedule, and there are anon of OCs and estrogens; more recent studies reborted on increased lifetime relative risk of galibladder surgery in users of OCs and estrogens; more recent studies reborted to use of formulations with lower hormonal estrogen and progestogen doses. 8. Carbohritet and Livid Metabolic Effects – OCs cause olucose intolerance in a significant percentance of

6. Carbohydrate and Lipid Metabolic Effects – OCs cause glucose intolerance in a significant percentage of users. OCs with greater than 75 µg of estrogen cause hyperinsulinism, lower estrogen doses cause less glucose intolerance. Progestogens increase insulin secretion and create insulin resistance (effect varies with different

Inforence. Progestogens increase insulin secretion and create insulin resistance (effect varies with different agents). Observe prediabetic and diabetic women carefully while taking OCs. In non-diabetic women, OCs have no apparent effect on fashing blood plucose. A small proportion of women will have persistent hypertriglyceridemia while on OCs. Changes in serum triglycerides and inportent levels have been reported in OC users (see Warnings). 9. Elevated Blood Pressure – Increase in blood pressure has been reported in women on OCs; Increase is more likely in older OC users and with continued use. Data show that incidence of hypertension increases with increasing quantities of progestogens.

Increasing quantities of progestogens. Encourage women with history of hypertension or hypertension-related diseases, or renal disease to use another contraceptive method. Monitor hypertensive women electing to use OCs closely, discontinue OC II significant blood pressure elevation occurs. For most women, elevated blood pressure returns to normal after OC stopped. No difference in occurrence of hypertension among ever- and never-users exists. 10. Headache -- Discontinue OC and evaluate cause at onset or exacerbation of migraine, or il new pattern of headache (i.e. recurrent, persistent, severe) develops.

Incadating (i.e. recurrent, persistent, severe) develops.
11. Dieeding intergularities – Breakthrough bleeding and spotting sometimes occur, especially during first 3 months of use. Type and dose of progestogen may be important. Consider non-hormonal causes and take adequate diagnostic measures to rule out malignancy or pregnancy in event of breakthrough bleeding, as with any abnormal vaginal bleeding. If pathology excluded, time or a formulation change may solve the problem. In the event of amenorrhea, rule out pregnancy. Some women encounter post-pill amenorrhea or oligomenorrhea, especially when such a condition was pre-existent. Precautions

Precautions 1. Physical Examination and Follow Up – A complete medical history and physical examination should be taken prior to initiation or reinstitution of CGs and at least annually during use. Physical exams should include special reference to blood pressure, treasts, abdomen and pelvic organs, including cervical cytology and relevant laboratory tests. In case of undiagnosed, persistent or recurrent abnormal vaginal bleeding, conduct appropriate diagnostic measures to rule out malignancy. Monitor women with strong family history of breast cancer or who have breast nodules with particular care. 2. Lipid Disorders – Follow women being troated for hyperlipidemias closely if they offect to use OCS. Some progestogens may elevate LDL levels and may render control of hyperlipidemias more difficult. (See Wannings) 3. *Liver Function* – Discontinue OC If Jaundice develops. Steroid hormones may be poorly metabolized in patients with impaired liver function. 4. *Fluid Retention* – OCs may cause some degree of fluid retention. 5. *Envirolina* and only with careful monitoring, in patients with conditions possibly aggravated by fluid retention. 5. *Envirolina* – It significant depression occurs stop redication and use alternate contraceptive method in attempts to determine if symptom is drug related. Observe carefully those with history of depression and stop drug if depression recurs to serious depree. *Contact* -and penetres who develop visual changes or changes on lines tolerance should be assessed by an ophthalmologist. 7. *Drug Interactions* – Reduced efficacy and increased incidence of breakthrough bleeding and menstrual inegularities are associated with concomitant iflangin use. A similar association, hough less marked, is suggested with barditurates, phenylbutzone, phenylbutzone, phenylbutzone, the similar association withor, is reserved by with an estily with griseolitivin, and menistrual inequiarities are associated with concomitant in line dated metodotice of oreanticegin hocking and menistrual inequiarities are associated with concomitant in line dated metodotice of oreanticegin hocking and menistrual inequiarities are associated with concomitant in line dated metodotice and liver-tunction tests and blood components may be affected by OCs: a increased protivonbin and factors VII. VIII, IX, and X; decreased antihurombin 3. Increased norepinephrine-induced platelet aggregability b. Increased through less and blood components may be affected by OCs: a increased protivonbin and factors VII. VIII, IX, and X; decreased antihurombin 3. Increased norepinephrine-induced platelet aggregability b. Increased through length of platin IT-BG leading to increased circulating total thryoid hommone, as measured by protein-bound lodine (PBI). T4 by column or by radioimmunoassay Free T3 resin uptake is decreased, rellecting the elevated BC; tree T4 concentration is unaltered. c. Other binding proteins may be elevated in serum. d. Sex-binding globulins are increased and result in devated levels of total circulating sex storcids and corticolds: line or bloogically active levels remain unchanged. e. Tiglycerides may be increased. T, Glucose tolerance may be decreased by <u>S5</u>. Street Contrantications and Warnings. 11. *Nursing Mothers* – Small amounts of OC storoids have been identified in milk of nursing mothers and a low adverse offects on the child have been reported, including jandice and breast enlargement. In addition, OCs given In postpartum period may interfere with lactation by decreasing breast milk quantity and quality. If possible, advise nursing mother to use other forms of contraception, not CCs. until child is completely weared. completely weaned

Information for the Patient — See Patient Package Labeling. Adverse Reactions — An increased risk of the following serious adverse reactions has been associated with OC use (see Warnings): throubophilebitis, arterial thromboembolism, pulmonary embolism, myocardial infarction, cerebral hemorrhage; cerebral thrombosis; hyportension; gallbladder disease; hepatic adenomas or benign liver tumors.

liver tumors. There is evidence of an association between the following conditions and OC use, although additional confirmatory studies are needed: mesenteric thrombosis; retinal thrombosis. The following adverse reactions have been reported in patients on OCs and are believed to be drug-related: nausea, vomiting, gastrointestinal symptoms (such as abdominal cramps and bloating); breakthrough bloeding; spotting, change in mensitual flow, amenormea; temporary infertility after treatment discontinued; doma, melasma which may persist; breast changes: tendemess, enlargoment, secretion, change in weight (increase or decrease); change in mensitual flow; amenormea; temporary infertility after treatment cholestatic jaundice, migraine; rash (allengic); mental depression; reduced tolerance to carbohydrates; vaginal candidiasis; change in corrical curvature (steepening); intolerance to contact lenses. The following adverse reactions have been reported in OC users and the association is neither confirmed nor refuted; congenital anomalies; premenstrual syndrome; cataracts; optic neuritis; changes in appetite; cystills-tike syndrome; headche; nervouenes; dizzines; hissuitsm; loss of scal hair, erythema multiforme; erythema nodosum; hemorrhagic eruption; administ; promytria; impaired renal function; hemolytic uremic syndrome; Build-Chial syndrome; acne, changes in libido; colitis; sickle-cell disease; cerebral-vascular disease with mitral valve prolages; tupus-like syndromes.

Budic Chiari syndrome: acno, changes in ibidid; collids; sickle-cell disease; cerebral-vascular disease with mitrat valve prolapse: lupus like syndromes. **Overdosage** — Serious III effects have not been reported following acute ingestion of large doses of OCs by young children. Overdosage may cause nausea, and withdrawal bleeding may occur in females. **Noncontraceptive Health Benefits** — The following noncontraceptive health benefits related to OC use are supported by epidemiological studies that largely utilized OC formulations containing doses exceeding 0.035 mg of ething estradiol or 0.05 mg of mestranol. *Effects on menses*: increased menstrual cycle regularity, docreased blood loss and decreased incidence of ino-deficiency amenic: decreased incidence of symenorthea. *Effects related to inhibition of ovulation*, decreased incidence of symenorthea. *Effects an menses*: increased menstrual cycle regularity, docreased registrated to inhibition of ovulation: decreased incidence of uncidence of throadenomas and fibroystic disease of the breast; decreased incidence of a oute pelvic inflammatory disease; decreased incidence of edometrial cancer; decreased incidence of ovarian cancer. **Desage and Administration** — For maximum contraceptive offectiveness, take TNIPHASIL* (fuorostic disease) of the road stinyl estradiol tablets — triphasic regimen 21 - and 28-day regimens) exactly as directed and at intovals not over 24 hours. (If TRIPHASIL* is fusc taken later than first day of first menstrual cycle of medication or postpartum, contra-ceptive roliance should not be placed on it until atter the first 7 consecutive days of use. Possibility of ovulation and conception prior to initiation of medication should be considered.) For full details on dosage and administration see prescribing information in package insert.



Levonorgestrel and ethinyl estradiol tablets-Triphasic regimen 21- and 28-day regimens

THE OC TO START WITH BECAUSE SHE'LL STAY WITH IT

Simple, easy-to-use Day 1 Start

Patient acceptance proven over time*

 * Serious as well as minor adverse reactions have been reported following the use of all oral contraceptives.
 See prescribing information.

See brief summary on adjacent page.

in Female Healthcare WYETH-AY

v 1991, Wyeth-Ayerst Laboratories.

In upper and lower respiratory tract infections, BIAXIN...

Spans the Spectrum of and Erythromycin

The key respiratory spectrum of the beta-lactams, plus the atypical spectrum of erythromycin... *H. influenzae, S. pneumoniae, S. pyogenes, M. catarrhalis* and *M. pneumoniae*¹⁻⁴ Excellent tissue penetration without sacrificing therapeutic serum levels^{1,5}

Cast of success are clinical core or improvement with a body to cast be clinical core or improvement with

terms see following page for brief summary of Prescribing formation

the Beta-lactams

Excellent clinical success rates in community-acquired pneumonia, acute exacerbation of chronic bronchitis, pharyngitis, tonsillitis, and acute maxillary sinusitis^{+1.6.7}

 Tolerability comparable to beta-lactams;^{1,7} convenient BID dosing

BIAXIN clarithromycin

250 mg and 500 mg Tablets

SPANS THE SPECTRUM

BIAXIN[™]

(Clarithromycin) Filmtab^a Tablets

BRIEF SUMMARY CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION

Concern Francescence and a second of the treatment of mid to moderate infections caused by BIAXIN (Clearing of the designated microorganisms in the conditions listed below septione strains of the designated increaring tests in Respiratory Tracti Infections Pharyngisti Charlis due to Shiptococcus progenes Acute matoliary anusés due to Shiptococcus pneumonies ir Respiratory Tract Infections

er Respussoy Tract Metocose Acuto bacienal execubation ol chronic bronchilis due to Heemophilus influenzee, Monzele caternate or Sereptococce presencoite Preumoniae due to Mycopitema preumoniae or Streptococcus pneumonae operatede Stan and Stim Structure Intections due to Steptococcos aureus o Streptococcus

associate collec. After the dispross of pseudomentoranous colles has been established, thanpeutic measures should be initiated. Held causes of pseudomentorance colles usually respond to discontinuation of the drug stone. In moderate to surver cause, consideration should be given to immagement with fails and selectivityse, proders taggiorenciation, and settement that an antiductoral drug effective against. Cooptakum disfour displan taggiorenciation, and settement that in antiductoral drug effective against. Cooptakum disfour.

PRECAUTIONS remunitrations General Culterionsyon is poncipally escreted with the liver and ladney. Califikomyon may be adminis-leade which could be dualated by patients with hepetic impairment and normal level function. However, in the presence of severe world impairment with or without coexisting hepatic impairment, decreased dospit retransition with a poporties.

doago transits may be appropriat.
Description control may be appropriate the second of the

Concentral adversatiation of erginitoring and digram has been reported to result in elevated digramitive elevation constrainty. Concentral and interpretation of the elevation of the elevation

Best propose and the second sec

To detail the start of the method of the start of the initial table in the start of the start of

crited al servere In studes of prevences comparing distributions to exploring an base or exploring on alterate, the week environment environment of dipastes system in clambrangen-based patients com a dis explorangen trades patients (CSN x XSN, pr 001) "environment environment and discontinual theory due to software events compared to KN of clambrangen-based platents com the KNews platents events have been prodict with exploration products but of a clambrangen to software environment events have been to compared to KN of clambrangen products but of an clambrangen to software environment events have been prodict with exploration products but of a clambrangen clambrangen environment events have been prodict with explorations products but of an clambrangen clambrangen environment events have been prodict with explorations products but of a clambrangen clambrangen environment events have been the clambrangen environment environment events and been the clambrangen environment envinter environment environment environment environmen

or deminungen Rethy, entromyon has been associatio with vertocular antifysmes, nicidadus vertificada lacitycan-da and tornates doens, en norbadus with possipol Of transmis. Changer I. abbostory Values Changes in laboratory values with possible dancia ugaticance were as libors.

Lakows Hoppic - Elwated SQP1 (ALT) < 1%, SQOT (AST) < 1%, GGT < 1%, albaine phosphate <1%, LDH < 1%, and fixed banchon - 1%. Hemotologic - Decreased WBC < 1%, and elwated proteorobin time 1%, Renal - Elevated BUN 4%, and elwated latering ranking < 1%.</p>

Revised April 1992

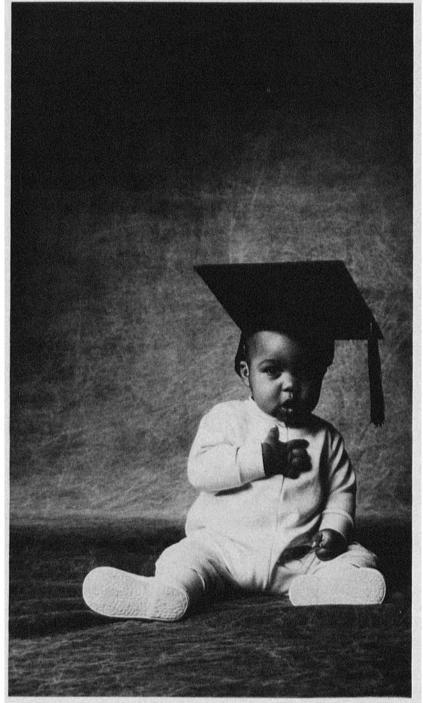
Renard Apro1982 References: 1. Data on Ne. Abbot Laboratores 2. Konnedy DW, Stebbers AH. Sirvases in Raid RF, ed Coarti Courre Theory 1990 Philadophia WB Saurose, 1990 157-181 3. Care Net Ougasest management of bacteria lower respersory paid reference. Drug Theory March 1990 51-26. 4 (Bit MJ, Renet 24. Nover Figuratory March Editoria. A busit revel Indication in Medicine August 2014; 43:96 5 Traction F, Soupione F, Pratuco G, Maccatelle G, Duran S, Demanti G. The diffusion of definitioning and cound information in the section of Audio Audio Chamber 1991/27 (Dapped A) 51:45 6. Gupta B, Notrout VJ, Prakomer P, Carth JC, Comparative efficacy and salely of Calmitoryna et al careful in the section of Cauto Bacteria Bacteriatore of Cautoria Laboratoria Laboratoria (Data Cautoria). The Sim JP Audio JL, Johnsh M, et al to comparative shocks you balley of Calmitoryna and amorphin in the Instantion of Cautoria Marcelli and studies. J America Cautoria and Sim Anna J Phateronia. Johnsh M, et al to comparative shocks you balley of Calmitoryna and amorphin in the Instantion of Cautoria and Simolian and studies. J America Cautoria M, and Simolian and Simolian and America and studies. J America Cautoria and amorphin in the Instantion of Cautoria and amorphic and and studies. J Amorphic Cautoria and amorphin and amorphic and the Instantion of Amorphic and amorphic and a studies. J Amorphic Cautoria and amorphin and amorphic amorphic amorphic amorphic amorphic amorphic amorphic and amorphic and amorphic amorphic amo where you were to construct on an amongolin in the treatment of outpatents with acute matulary anustics. J Anamoto Charmother, 1991;27 (suppl A), 83.90. Cedor⁴ is a registered trademark of Eb Lilly and Company, and Cethin⁴ is a registered trademark of Alen a fractions.

Abboll Laborationes North Chicago, IL 60064, U.S.A

Printed in U.S.A.

2048641R

U.S. Savings Bonds Are Now Tax Free For College. Good News Today. Better News In 18 Years.



If the cost of a college education seems expensive now, imagine what it will be in 18 years. That's why when it comes to college, Bonds are better than ever before. For years, they've been exempt from state and local income tax. Now,

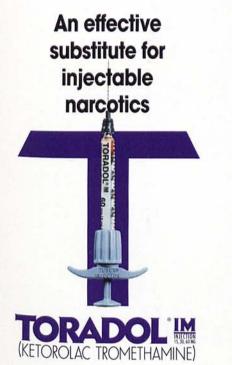
Bonds bought for your children's education can also be free from federal income tax. Which means most people can keep every penny of the interest they earn.

Start your tax free tuition fund today. Buy Bonds at your local bank, or ask about the Payroll Savings Plan at work.

U.S. Savings Bonds 1000 And Control and Annual Annua Ø

The Great American Investment

Narcotic efficacy. No narcotic drawbacks.



An effective substitute for oral narcotic combinations



Please see brief summary of prescribing information on last pages of this advertisement.

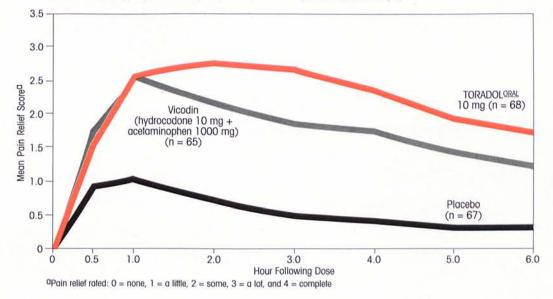
TORADOL[®]ORAL (KETOROLAC TROMETHAMINE)

Efficacy comparable to oral narcotic combinations

- TORADOL <u>ORAL</u> 10 mg as effective as acetaminophen 600 mg + codeine 60 mg and longer acting than Vicodin (two regular tablets)¹
- An analgesic NSAID for limited-duration use prn for the majority of acute pain conditions
- A substitute for oral narcotic combinations

Efficacy comparison vs Vicodin¹

Single-dose comparison of TORADOL <u>ORAL</u> vs Vicodin (two regular tablets) and placebo in a double-blind, randomized, parallel clinical study in patients with postoperative pain following dental impaction surgery.¹

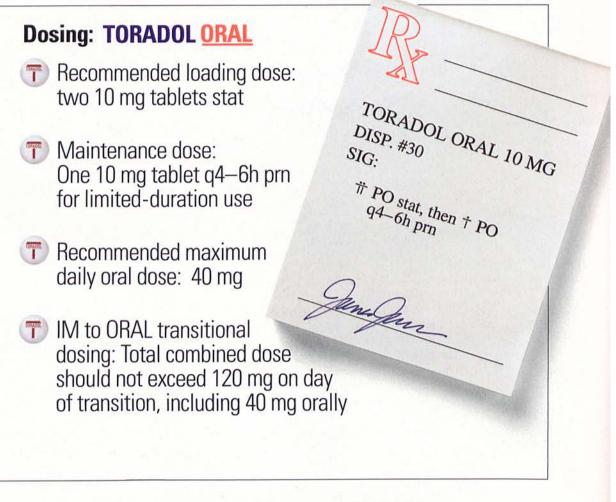


- In this study, patients treated with a single dose of 10 mg of TORADOL <u>ORAL</u> experienced longer duration of action as compared to patients treated with the equivalent of two regular Vicodin tablets¹
- T Patients receiving TORADOL <u>ORAL</u> reported significantly fewer GI (P < .001) and CNS (P = .02) adverse events than those patients receiving Vicodin^{*1}

* The most frequently reported side effects are gastrointestinal (dyspepsia, nausea, and GI pain) and CNS (headache). The most serious risks associated with TORADOL are gastrointestinal ulcerations, bleeding, and perforation; renal events ranging from interstitial nephritis to acute renal failure, especially in patients with preexisting kidney problems; hemorrhage; and hypersensitivity reactions. See "Warnings," "Precautions," and "Adverse Reactions" sections of prescribing information. Please see brief summary of prescribing information on last pages of this advertisement.

Narcotic efficacy. No narcotic drawbacks.

Nonopiate. Nonaddictive. Nonscheduled.



The only analgesic NSAID available in both IM and oral forms.



Reference: 1. Data on file, Syntex Laboratories, Inc., Document #P093019-3. Please see brief summary of prescribing information on last pages of this advertisement. ©1992 Syntex Laboratories, Inc. P093019



TORADOL® M and TORADOL® ORAL (ketorolac tromethamine)

BRIEF SUMMARY

DESCRIPTION

TORADOL is a member of the pyrrolo-pyrrole group of nonsteroidal anti-Inflammatory drugs (NSAIDs). TORADOL[™] is available for intramuscular (IM) administration as: 15 mg in 1 mL (1.5%), 30 mg in 1 mL (3%), or 60 mg in 2 mL (3%) of ketorolac tromethamine in sterile solution. The 15 mg/mL solution contains 10% (w/v) alcohol, USP, and 6.68 mg of sodium chiorlde in sterile water. The 30 mg/mL solution contains 10% (w/v) alcohol, USP, and 4.35 mg sodium chloride in sterile water. The pH is adjusted with sodium hydroxide or hydrochloric acid and the solutions are packaged with nitrogen. The sterile solutions are clear and slightly yellow in color. TORADOLORAL is evailable as round, white, film-coated, red-printed tablets. Each tablet contains 10 mg ketorolac tromethamine, the active ingredient, with lactose, magnesium stearate, and microcrystalline cellulose. The white film-coaling contains hydroxypropyl methylcellulose, polyethylene glycol, and titanium dioxide. The tablets are printed with red ink which includes FD&C Red #40 Aluminum lake as the colorant.

INDICATIONS AND USAGE

TORADOL[™] is indicated for the short-term management (up to 5 days) of pain (see "Clinical Studies" in CLINICAL PHARMACOLOGY section of full prescribing information). TORADOL[™] is not recommended for longer use (more than 5 days) because of the possibility of Increased frequency and severity of adverse reactions associated with the recommended doses (see WARNINGS, DOSAGE AND ADMINISTRATION section of full prescribing information and ADVERSE REACTIONS). TORADOL™ is not recommended as a pre-operative medication for support of anesthesia, because it inhibits platelet aggregation and may prolong bleeding time (see PRECAUTIONS — Hematologic Effects) and because it possesses no sedative or anxiolytic properties. TORADOL[•][™] is not recommended in obstetric analgesia because it has not been adequately studied for such use and because of the known effects of drugs that inhibit prostaglandin synthesis on uterine contraction and fela! circulation. TORADOL^M has been used concomitantly with morphine and meperidine without apparent adverse effects. TORADOL ORAL is indicated for limited duration prn use in the management of pain (see WARNINGS, ADVERSE **REACTIONS and CLINICAL PHARMACOLOGY - Clinical Studies** Sections of full prescribing information for details about relative risks associated with TORADOLOBAL). TORADOLOBAL is not recommended for long-term use in patients with chronic painful conditions. TORADOLIM and ORAL are not recommended for concurrent use with other nonsteroidal anti-inflammatory drugs (NSAIDs) because of the potential for additive side effects. The protein-binding of ketorolac is affected by aspirin (see PRECAUTIONS) but not by acetaminophen, ibuproten, naproxen or piroxicam; studies with other nonsteroidals have not been performed.

CONTRAINDICATIONS

TORADOL should not be used in patients with previously demonstrated hypersensitivity to ketorolac tromethamine, or in individuals with the complete or partial syndrome of nasal polyps, angioedema, bronchospastic reactivity (e.g., asthma) or other allergic manifestations to aspirin or other nonsteroidal anti-inflammatory drugs (NSAIDs). Severe anaphylactic-like reactions to TORADOL have been reported in such patients. Therefore, before starting therapy, careful questioning of patients for such things as asthma, nasal polyps, urticaria, and hypotension associated with nonsteroidal anti-inflammatory drugs is important. In addition, if such symptoms occur during therapy, treatment should be discontinued.

WARNINGS

The most serious risks associated with TORADOL are: gastrointestinal ulcerations, bleeding and perforation (see PRECAUTIONS); renat events ranging from interstitial nephritis to acute renal failure (see PRECAUTIONS), especially in patients with pre-existing kidney problems; hemorrhage, especially in patients where strict hemostasis is critical (see PRECAUTIONS); hypersensitivity reactions such as anaphylaxis, bronchospasm, vascular collapse, urticaria, angioedema, Stevens Johnson syndrome and vesicular bullous rash. Anaphylactoid reactions may occur in patients with a history of hypersensitivity to aspirin, other nonsteroidal anti-inflammatory drugs, or TORADOL. They may, however, also occur in patients without a known previous exposure or hypersensitivity to these agents. Both types of reactions may be fatal. The use of TORADOLM at recommended doses for more than 5 days is associated with an increased frequency and severity of adverse events. The use of TORADOLOBAL 10 mg on a long-term basis is associated with more GI tract adverse effects than aspirin 650 mg qid (see CLINICAL PHARMACOLOGY - Clinical Studies Section of full prescribing information). Long-term treatment is not recommended (see INDICATIONS AND USAGE section of full Prescribing information). High oral doses (e.g., 80 or 120 mg/day) are not recommended because risks of serious adverse events are greater with daily doses exceeding the recommended 40 mg oral per day (see ADVERSE REACTIONS).

PRECAUTIONS

Physicians should be alert to the pharmacologic similarity of TORADOL to other nonsteroidal anti-inflammatory drugs (NSAIDs) that inhibit cyclo-oxygenase.

General Precautions

Risk of Gastrointestinal Ulcerations, Bleeding and Perforation: Serious gastrointestinal toxicity, such as bleeding, ulceration, and

TORADOL® M and TORADOL® ORAL (ketorolac tromethamine)

perforation, can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Studies to date with NSAIDs 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 known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no other factors have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than other individuals, and most sponlaneous reports of fatal GI events are in this population. Postmarketing experience with TORADOLM suggests that there may be a greater risk of gastrointestinal ulcerations, bleeding and perforation in the elderly. Studies so far are inconclusive concerning the relative risk of various nonsteroidal anti-inflammatory drugs (NSAIDs) in causing such reactions. High doses of any such agent probably carry a greater risk of these reactions, although this is rarely established in controlled clinical trials. In considering the intramuscular use of relatively large doses (within the recommended dosage range), or treatment with TORADOL^{IM} for a duration longer than 5 days, sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity. The risks of gastrointestinal side effects associated with long-term use of TORADOLORAL are described under CLINICAL PHARMACOLOGY — Clinical Studies (Long-Term

Use of TORADOL) section of full prescribing information. Impaired Renal or Hepatic Function: As with other nonsteroidal anti-inflammatory drugs (NSAIDs), TORADOL should be used with caution in patients with impaired renal or hepatic function, or a history of kidney or liver disease.

Renal Effects: As with other nonsteroidal anti-inflammatory drugs (NSAIDs), administration of ketorolac tromethamine to animals resulted in renal papillary necrosis and other abnormal renal pathology. In humans, there have been reports of hematuria, proteinuria, glomerular nephritis, interstitial nephritis, renal papillary necrosis, nephrotic syndrome, and acute renal failure. Another, equally important, renal toxicity has been seen in patients with conditions leading to a reduction in blood volume and/or renal blood flow, where renal prostaglandins have a supportive role in the maintenance of renal perfusion. In these patients, administration of a nonsteroidal anti-inflammatory drug (NSAID) may cause a dosedependent reduction in renal prostaglandin formation and may precipitate acute renal failure. Patients at greatest risk of this reaction are those with impaired renal function, heart failure, liver dysfunction, those taking diuretics and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state. TORADOL and its metabolites are eliminated primarily by the kidneys which, in patients with reduced creatinine clearance, will result in diminished clearance of the drug (see CLINICAL PHARMACOLOGY section of full prescribing information). Therefore, TORADOL should be used with caution in patients with impaired renal function (see WARNINGS, and DOSAGE AND ADMINISTRATION section of full prescribing information) and such patients should be followed closely. Fluid Retention and Edema: As with other nonsteroidal antiinflammatory drugs (NSAIDs) that inhibit prostaglandin biosynthesis, fluid retention, edema, retention of NaCI, oliguria, elevations of serum urea nitrogen and creatinine have been reported in clinical trials with TORADOL. Therefore, TORADOL should be used with caution in patients with acute renal failure, cardiac decompensation, hypertension, or similar conditions.

Hepatic Effects: As with other nonsteroidal anti-inflammatory drugs (NSAIDs), treatment with TORADOL may cause elevations of liver enzymes, and in patients with pre-existing liver dysfunction, it may lead to the development of a more severe hepatic reaction. The ALT (SGPT) test is probably the most sensitive indicator of liver injury. In patients with symptoms and signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred as a result of TORADOL

therapy, the administration of the drug should be discontinued. Hematologic Effects: TORADOL inhibits platelet aggregation and may prolong bleeding time. Unlike aspirin, the inhibition of platelet function by TORADOL disappears within 24 to 48 hours after the drug is discontinued. TORADOL does not appear to affect platelet count, prothrombin time (PT) or partial thromboplastin time (PTT). In controlled clinical studies where TORADOL was administered intramuscularly or intravenously postoperatively, the incidence of clinically significant postoperative bleeding was 0.4% for TORADOL compared to 0.2% in the control groups receiving narcotic analgesics. Because prostaglandins play an important role in hemostasis, and NSAIDs affect platelet aggregation as well, use of TORADOL in patients who have coagulation disorders should be undertaken with caution, and those patients should be carefully monitored. Patients on therapeutic doses of anticoagulants (e.g., heparin or dicumarol derivatives) have an increased risk of bleeding complications if given TORADOL concurrently; physicians should administer such concomitant therapy with extreme caution. The concurrent use of TORADOL and prophylactic, low-dose heparin (2500-5000 units q12h) has not been studied extensively, but may also be associated with an increased risk of bleeding. Physicians should weigh the benefits against the risk, and exercise caution in using such concomitant therapy in these patients. In patients who receive anticoagulants for any reason, there is an increased risk of intramuscular hematoma formation from TORADOL⊯ injections (see PRECAUTIONS — Drug Interactions). In postmarketing experience, postoperative hematomas and other signs of wound bleeding have been reported in association with the perioperative use of TORADOLM. Caution should be used, therefore, when TORADOL is administered pre- or intra-operatively. Perioperative use of TORADOL should be undertaken with caution when strict hemostasis is critical. Information for Patients

TORADOL, like other drugs of its class, is not free of side effects. The

TORADOL® M and TORADOL® ORAL (ketorolac tromethamine)

side effects of these drugs can cause discomfort and, rarely, there are more serious side effects, such as gastrointestinal bleeding, which may result in hospitalization and even fatal outcomes. Physicians may wish to discuss with their patients the potential risks (see WARNINGS, PRECAUTIONS, and ADVERSE REACTIONS Sections) and likely benefits of TORADOL treatment, particularly when it is used for less serious conditions when lengthy treatment is anticipated and when acceptable alternatives to both the patient and physician may be available.

Laboratory Tests

Because serious GI tract ulceration and bleeding can occur without warning symptoms, physicians should follow patients for the signs and symptoms of ulceration and bleeding and should inform them of the importance of this follow-up (see PRECAUTIONS - Risk of GI Ulceration, Bleeding and Perforation).

Drug Interactions

TORADOL is highly bound to human plasma proteins (mean 99.2%) and binding is independent of concentration. The in vitro binding of warfarin to plasma proteins is only slightly reduced by TORADOL (99.5% control vs 99.3%) with TORADOL plasma concentrations of 5 to 10 µg/mL. TORADOL does not alter digoxin protein binding. In vitro studies indicate that, at therapeutic plasma concentrations of sallcylate (300 µg/mL), the binding of TORADOL was reduced from approximately 99.2% to 97.5%, representing a potential two-fold increase in unbound TORADOL plasma levels; hence, TORADOL should be used with caution (or at a reduced dosage) in patients being treated with high-dose salicylate regimens. Therapeutic concentrations of digoxin, warfarin, ibuprofen, naproxen, piroxicam, acetaminophen, phenytoin, and tolbutamide did not alter TORADOL protein binding. In a study involving 12 volunteers, oral TORADOL was co-administered with a single dose of 25 mg wartarin, causing no significant changes in pharmacokinetics or pharmacodynamics of warfarin. In another study, intramuscular TORADOL (following oral dosing) was given with two doses of 5000 U of heparin to 11 healthy volunteers, resulting in a mean template bleeding time of 6.4 minutes (3.2-11.4 min) compared to a mean of 6.0 minutes (3.4-7.5 mm) for heparin alone and 5.1 minutes (3.5-8.5 min) for placebo. Although these results do not indicate a significant interaction between TORADOL and warfarin or heparin, the administration of TORADOL, or other NSAIDs, to patients taking anticcagulants should be done with caution and patients should be closely monitored (see PRECAUTIONS — Hematologic Effects). Intramuscular TORADOL reduced the diuretic response to furosemide in normovolemic healthy subjects by approximately 20% (mean sodium and urinary output decreased 17%). Concomitant administration of oral TORADOL and probenecid resulted in decreased clearance of ketorolac and significant increases in ketorolac plasma levels (total AUC increased approximately 3-lod from 5.4 to 17.8 gg-hmL) and terminal half-life (increased approximately 2-loid from 6.6 to 15.1 hours). Inhibition of renal Ilthium clearance, leading to an increase in plasma lithium concentration, has been reported with some prostaglandin synthesis inhibiting drugs. The effect of TORADOL on plasma lithium has not been studied. Concomitant administration of methotrexate and some NSAIDs has been reported to reduce the clearance of methotrexate, enhancing the toxicity of methotrexate. The effect of TORADOL on methotrexate clearance has not been studied. In postmarketing experience, there have been three reports of a possible interaction between TORADOLIM and non-depolarizing muscle relaxants, appearing to enhance the effect of the muscle relaxant. The concurrent use of TORADOL with muscle relaxants has not been formally studied. Intramuscular TORADOL has been administered concurrently with morphine in several clinical trials of postoperative pain without evidence of adverse interactions. There is no evidence, in animal or human studies, that TORADOL induces or inhibits hepatic enzymes capable of metabolizing itself or other drugs Carcinogenesis, Mutagenesis, and Impairment of Fertility

An 18-month study in mice at oral doses of ketorolac tromethamine equal to the parenteral MRHD (Maximum Recommended Human Dose) and a 24-month study in rats at oral doses 2.5 times the percenteral MRHD, showed no evidence of tumorigenicity. Ketorolac tromethamine was not mutagenic in Ames test, unscheduled DNA synthesis and repair, and in forward mutation assays. Ketorolac did not cause chromosome breakage in the *in vivo* mouse micronucleus assay. At 1590 µg/mL (approximately 1000 times the average human plasma levels) and at higher concentrations, ketorolac tromethamine increased the incidence of chromosomal aberrations in Chinese hamster ovarian cells. Impairment of fertility did not occur in male or female rats at oral doses of 9 mg/kg (53.1 mg/m2) and 16 mg/kg (94.4 mg/m²), respectively.

Pregnancy

Pregnancy Pregnancy Category C Reproduction studies have been performed in rabbits, using daily oral doses at 3.6 mg/kg (42.35 mg/m²) and in rats at 10 mg/kg (58 mg/m²) during organogenesis. Results of these studies did not reveal evidence of teratogenicity to the fetus. Oral doses of ketorolac tromethamine at 1.5 mg/kg (6.8 mg/m²), which was hall of the human oral exposure, administered alter gestation day 17 caused dystocla and higher pup mortality in rats. There are no adequate and well-controlled studies in pregnant women. Ketorolac tromethamine should be used during pregnancy only if the potential benefit usifies the potential risk to the pregnancy only if the potential benefit justifies the potential risk to the fetus.

Labor and Delivery

TORADOL is not recommended for use during labor and delivery (see INDICATIONS and USAGE section of full prescribing information).

Lactation and Nursing After a single administration of 10 mg of TORADOLORAL to humans, the

TORADOL[®] and TORADOL[®] ORAL (ketorolac tromethamine)

maximum mllk concentration observed was 7.3 ng/mL and the maximum mllk-to-plasma ratio was 0.037. After one day of dosing (c)d), the maximum mllk concentration was 7.9 ng/mL and the maximum mlk-to-plasma ratio was 0.025. Caution should be exercised when TORADUM@CBML is administered to a nursing woman.

Pediatric Use

Safety and efficacy in children have not been established. Therefore, TORADOL is not recommended for use in children. Use in the Elderiv

Use in the Elderly Because ketorolac tromethamine is cleared somewhat more slowly by the elderly (see CLINICAL PHARMACOLOGY section of full prescribing information) who are also more sensitive to the renal elfects of NSAIDs (see PRECAUTIONS — Renal Effects), extra caution and reduced dosages (see DOSAGE AND ADMINISTRATION section of full prescribing information) should be used when treating the elderly with TORADOL.

ADVERSE REACTIONS

Adverse reaction rates from short-term use of NSAIDs are generally from 1/10 to 1/2 the rates associated with long-term use. This is also true for TORADOL. Adverse reaction rates also may increase with higher doses of TORADOL (see WARNINGS, and DOSAGE AND ADMINISTRATION section of full prescribing information). TORADOL^M is indicated for short-term use. Physiclans using TORADOL[™] should be alert for the usual complications of NSAID treatment, and should be aware that with longer use (exceeding 5 days) of TORADOL^{IM}, the frequency and severity of adverse reactions may increase. Physicians using TORADOLOBAL should be alert to the relative risks associated with dose and dose duration as described in CLINICAL PHARMACOLOGY — Clinical Studies section of full prescribing information. Physiclans using TORADOL should be alert for the usual complications of NSAID treatment. The adverse reactions listed below were reported in clinical trials with TORADOL in which patients received up to 20 doses, in 5 days, of TORADOU™ 30 mg or up to 4 doses a day from long-term studies of TORADOLORAL 10 mg qid. In addition, adverse reactions that were reported from TORADOL[™] postmarketing surveillance are included in Tepping non-Construction for the postantation is streamly and incidence in the construction of the postantation is streamly and the postantation in the postantation of the postantatio (13%), constipation, diarrhea*, flatulence, gastrointestinal fullness, vomiting, STOMATITIS; Hemic and Lymphatic: purpura; Nervous System: drowsiness*, dizziness*, HEADACHE (17%), sweating. Injection site pain was reported by 2% of patients in multidose studies (vs. 5% for the morphine control group). "Incidence of reported reaction between 3% and 9%. Those reactions occurring in less than 3% of the patients are unmarked. Reactions reported predominantly from long-term TORADOLOBAL studies are CAPITALIZED. Incldence 1% or Less (probably causally related): Body as a Whole: hypersensitivity reactions such as anaphylaxis1, bronchospasi laryngeal edema, tongue edema, hypotension, and flushing, weight gain, fever; Cardiovascular: flushing, palpitation, pallor, hypotension, syncope; Dermatologic: Lyell's syndrome, Stevens-Johnson e, extoliative dermatitis, maculo-papular rash, urticaria; Gastrointestinal: peptic ulceration, GI hemorrhage, GI perforation (see WARNINGS and PRECAUTIONS), melena, rectal bleeding, gastritis, eructation, anorexia, increased appetite; Hemic and Lymphatic: postoperative wound hemorrhage, rarely requiring blood transfusion (see WARNINGS and PRECAUTIONS) thrombocytopenia, epistaxis, anemia; Nervous System: convulsions, vertigo, tremors, abnormal dreams, hallucinations, euphoria; Respiratory: dyspnea, asthma, pulmonary edema; Urogenital: acute renal failure (see WARNINGS and PRECAUTIONS), flank pain with or without hematuria and/or azotemla, oliguria, nephritis.

Intalics denote reactions reported from postmarketing experience. <u>Other Adverse Events</u> (causal relationship unknown)²: Body as a Whole: asthenia; Gestrointestinal: pancreatilis; Hemic and Lymphatic: ieukopenia, EOSINOPHILIA; Nervous System: paresthesia, depression, insomnia, nervousness, excessive thirst, dry mouth, abnormal thinking, inability to concentrate, hyperkinesia, stupor, Respiratory: HHINITIS, COUGH, dyspnea; Special Senses: abnormal taste, abnormal vision, blurred vision, tinnitus, HEARING LOSS; Urogenitati: polyuria, increased urinary frequency.

2Reactions occurred under circumstances where the causal relationship to TORADOL treatment has not been clearly established; they are presented as alerting information for physicians. Reactions reported predominantly from long-term TORADOLOBAL studies are CAPITALIZED.

See package insert for full prescribing information. CAUTION: Federal law prohibits dispensing without prescription.

U.S. Patent No. 4,089,969 and others



Syntex Laboratories, Inc. Palo Alto, CA 94304 ©1992 Syntex Laboratories, Inc.



Opening Doors to Physician Health

International Conference on Physician Health

January 28-31, 1993 Marriott Mountain Shadows Resort Scottsdale, Arizona

Sponsored by the American Medical Association, the Canadian Medical Association, the Federation of State Medical Boards, and the Federation of Medical Licensing Authorities of Canada

HIV infection and AIDS ... the rights of the disabled ... substance abuse ... mental illness ... aging. These health problems are on our minds and in our news, affecting the way we live, the way we interact, the way we plan for our futures.

And physicians are not immune to them.

Now you can discover more about how physicians are facing their own health challenges—at the premier meeting on physician health concerns, the *International Conference on Physician Health*.

The conference provides an opportunity to hear about the latest research

To register, please call

800 262-3211

Visa, MasterCard, Optima or American Express are accepted.

Registration Fees (US dollars)	"Early Bird"	After 12/11/92
AMA members, physicians	\$295	\$345
outside the US Nonmembers	\$350	\$400
Residents	\$195	\$245
Students	\$175	\$175

American Medical Association

Physicians Health Foundation

Caring for the Caregiver

A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERT

findings on physician health, as well as new and innovative treatment and education programs in the area. Topics will include:

- Health maintenance and promotion for physicians
- Cocaine-sensitive DNA
- Mental illness in physicians
- Physicians with physical limitations
- HIV infection among physicians

While you explore the issues, take advantage of the Mountain Shadows Resort location for a personal health break. Golf, play tennis, swim, hike in the mountains—or join the stressreduction exercise classes.

Make your plans now to attend. For full registration information, call toll free: 800 262-3211.

There is only one automatic Epinephrine Injection.

For self administration in any allergic emergency...



Just remove safety cap and press into thigh.

<text><text><text><text><text><text><text>

situations even though this product contains sodium metabisulfite, a sulfite that may in other products cause allergic-type reactions including ana-phylactic symptoms or life-threatening or less severe asthmatic episodes in certain susceptible persons. The alternatives to using epinephrine in a life-threatening situa-tion may not be astistactory. The presence of a sulfile in this product should not dete administration of the drug for treatment of serious allergic or other emergency situations

administration of the oring for freatment of sendos alregic of one emergency sinua-toms. Accidential injection into the hands or feet may result in loss of blood flow to the affected area and should be avoided. If there is an accidental injection into these areas, go immediately to the nearest emergency room for treatment. EpiPen should DNL / be injected into the anteriotaterial aspect of the thigh. **PRECAUTIONS:** Epinephrine is ordinarily administered with extreme caution to patients who have heat disease. Use of epinephrine with drugs that may sensitize the heart to arrhythmias, e.g., digitalis, mercural duretics, or guindline, ordinarily is not recommended. Anginat pain may be induced by epinephrine in patients with coronary insufficiency. The effects of epinephrine may be potentiated by theyclic antidepressants and monoramine oxidase inhibitors. hyperthytroid individuals, individuals with cardiovascular disease, typertension, or diabetes, tidenty han ortelation. Despite these concerns, epinephrine is a patient appression that on anaphytaxis. Therefore, patients with these conditions, and/or any other prinor who might be in an Destinon to administer EDPI or EDPI or Lot a patient appression which the in the should be carefully instructed in regard to the circumstance under which this life. **Administer EDPI** or EDPI or EDPI or EDPI or Monor Monor Might be in an Destinon to administer EDPI or EDPI or Lot a patient appression to administer EDPI or EDPI or Monor Monor Might be in an EDPI or Monore Instructed in regard to the circumstance under which this life. **Administer** EDPI or **Circumstance Registered for EPINILITY:** Studies of

should be carefully instructed in régard to the circumstances under winch this new saving medication should be used. CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY: Studies of epinephrine in animals to evaluate the carcinogenic and mutagenic potential or the effect on fartility have not been conducted. USAGE IM PREGNARCY: Pregnancy Category C: Epinephrine has been shown to be tentaponic in rats when given in doses about 25 times the human dose. There are no adequate and well-controlled studies in pregnant women. Epinephrine should be totageness of the potential benefit justifies the potential risk to the fotus. PEDIATRIC USE: Epinephrine may be given safely to children at a dosage appropriate to bedry weight (see Dogae and Administration). ADVENEE REACTIONS: Sole effects of epinephrine may include palpitations, tachycardia, sweating, nausea and vomiting, respiratory difficulty, pallor, dizziness,

veakness, tremor, headache apprehension, nervousness and anxiety. Cardiac arrythmias may follow administration of

epinephrine. DVERDOSAGE: Overdosage

OVERDOSAGE: Overdosage or inadvertent intravascular injection pressure. Fatalities may also result from pulmonary dema because of peripheral vascular constriction together with cardias stimulation. DOSAGE AND ADMINISTRATION: Usual epinephrine adult dose for allergic emergencies to 3 mg. For gediatric use, the appropriate dosage may be 0.15 or 0.30 mg depending upon the body weight of the patient. However, the prescribing physi-cian has the option of prescripting more or less than these amounts, based on careful assessment of each individual patient and recognizing the life-threatening nature of the reactions for which this drug is being prescribed. With severe persistant anaphy-bic repeat injections with an additional EpiPen may be necessary. HOW SUPPLIED: EpiPen and EpiPen Jr. Auto-Injectors are available singly or in pactoget of twelver.

VIPERIN Jr. AUTO-INJECT

packages of twelve. CAUTION: Federal (U.S.A.) law prohibits dispensing without a prescription. Issued: April 1992



35 Channel Drive, Port Washington, NY 11050 Tel. 800-2-CENTER or 516-767-1800 Distributed in Canada by Allerex Laboratories, Ltd., Kanata, Ontario. Tel. 613-592-8200

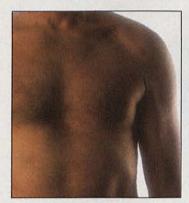
Manufactured for Center Laboratories by Survival Technology, Inc. Rockville, MD 20850 U.S. Patent Nos. 3,882,863, 4,031,893 and 3,712,301

DynaCirc[®] puts their safety first.



Facilitates renal function.

- No clinically significant change in serum creatinine^{1,2} or creatinine clearance^{1,3}
- No clinically significant effect on glomerular filtration rate³⁻⁶
- Maintains or decreases filtration fraction^{1,3,6}



Maintains cardiac performance.

- No significant effect on heart rate*710
- No adverse effect on cardiac conduction^{11,12} or contractility^{+3,10,13-15}
- No alteration of digoxin clearance¹⁶



Does not compromise metabolic parameters.

- No clinically significant effect on serum glucose metabolism¹⁷
- No effect on glucose tolerance, insulin secretion or insulin action in NIDDM patients¹⁷
- No clinically significant effect on lipid metabolism^{18,19}

- No known contraindications except for hypersensitivity to DynaCirc
- No significant interactions with the 20 most-commonly prescribed drugs[‡]
- Effectively reduces <u>diastolic</u> and <u>systolic</u> blood pressure without orthostatic hypotension^{\$7,20,21}
- Side effects are usually minimal and transient^{17,20,23}
 - -Low incidence of edema: 3.5% at 2.5 mg b.i.d. and 8.7% at 5 mg b.i.d.
 - -Rare incidence of constipation or cough (<1%)
 - Headache (12.6%) and dizziness (8.0%) are the most frequently reported side effects at 2.5 mg twice a day
- Among the least expensive calcium channel blockers

* Mild, clinically insignificant increases in heart rate may occur occasionally.

 t In limited studies, no adverse effect was seen on cardiac index and other indirect measurements of contractility in patients with normal function or moderate left ventricular dysfunction. However, caution should be exercised when using the drug in patients with CHF, particularly in combination with a beta blocker. Isradipine has a negative inotropic effect at high doses *in vitro*, and possibly in some patients. The clinical consequences of these effects have not been evaluated. **‡** Prescribed to patients aged 55 and above. Data from PDDA Top 100 Drug Uses for Dec. 1990–Nov. 1991, excluding calcium channel blockers. **§** Initial therapy with higher than recommended doses may cause orthostatic hypotension in patients with severe CHF.

At recommended doses of 2.5 to 5 mg b.i.d.



BRIEF SUMMARY Please see package insert for full prescribing information. DYNACIRC[®] (isradipine) CAPSULES

DynaCirc[®] (isradipine) is indicated in the management of hypertension. It may be used alone or concurrently with thiazide-type diuretics.

CONTRAINDICATIONS

DynaCirc[®] is contraindicated in individuals who have shown hypersensitivity to any of the ingredients in the formulation.

WARNINGS

None

PRECAUTIONS

PRECAUTIONS General: Blood Pressure: Because DynaCirc® decreases peripheral resistance, like other calcium blockers DynaCirc® may occasionally produce symptomatic hypotension. However, symptoms like syncope and severe dizziness have rarely been reported in hypertensive patients administered DynaCirc®, particularly at the initial recommended dose. Use in Patients with Congestive Heart Failure: Although acute hemodynamic studies in patients with congestive heart failure have shown that DynaCirc® reduced afterload without impairing my-ocardial contractility, it has a negative inotropic effect at high doses in vitro, and possibly in some patients. Caution should be exercised when using the drug in congestive heart failure patients, particularly in combination with a beta-blocker. Drug Interactions: Nitroglycerin: DynaCirc® has been safely coadministered with nitroglycerin. Hydrochlorothiazide: A study in normal healthy volunteers has shown that con-comitant administration of DynaCirc® and hydrochlorothiazide does not result in

hydrochlorothiazide does not result in altered pharmacokinetics of either drug. In a study in hypertensive patients, addition of isradipine to existing hydrochlorothiazide therapy did not result in any unexpected ad-verse effects, and isradipine had an additional antihyper tensive effect.

References 1. Krusell LR, Jespersen LT, Schmitz A, et al. Repeti-tive natriuresis and blood pressure: long-term calcium entry pressure long-term cacicum entry blockade with isradipine. *Hyperten-sion*. 1987;10(6):577-581. **2.** Pedersen OL, Krusei LR, Shm J, et al. Long-term effects of isradipine on blood pressure and renal function. *Am J Med*. 1989;86(Suppl 4A)15-18. **3.** Grossman E, Messerti FH, Oren S, et al. Cardio-Iterat Indicutor. Am Jeed: 1993 dollappin 40,19-18 3. Grossman E, Messeri HP, Olen S, et al. Cardio-vascular effects of isradipine in essential hypertension. Am J Cardio: 1991;68(1): 53-70. 1991;68(1): 53-70. 1991;68(1): 53-70. 1991;68(1): 53-70. 1991;68(1): 53-70. 1991;68(1): 53-70. 1992;79(1): 54-70. 1992;79(1): 54-70. 1992;79(1): 54-70. 1992;79(1): 54-70. 1993;79(1): 54-70. 1993;79(1): 54-70. 1993;79(1): 54-70. 1993;79(1): 54-70. 1993;79(1): 54-70. 1993;79(1): 54-70. 1993;79(1): 54-70. 1994;79(1): 54-70. 1994;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1995;79(1): 54-70. 1000;79(1) Gelder I, et al. Electrophysiologic properties of intravenous isradipine in persons with normal sinus node and atrioventricular nodal function Am J Med. 1988;84(suppl 3B):90-92. 12. van Wijk LM, van Gelder I, Crijns HJ, et a House version and Junction Am J Med 1988;84(suppl 38):90-92. 12, van Wijk I, M. van Gelder I, Chins HJ, et al. Cardiac electrophysiologic properties of intravenous isradipine in patients with sick sinus syndrome. Am J Med 1989;86(suppl 34):85-90 13. Beddoto B, Etchorn EJ, Popma JJ, et al. Effects of Intravenous isradipine on left ventricular performance during rapid atrial pacing in coronary artery disease. Am J Cardiol. 1990;85:189-194. 14. Greenberg BH, Siemienzuk D, Broudy D, Isradipne improves cardiac function in congestive heart failure. Am J Med 56:10. 15, van Berodro J, Bicodro JB, Etchorn EJ, Popma JJ, et al. Effects of an intravenous indusion of isradipine in patients with congestive heart failure. Am J Med. 1988;84(suppl 38):97-10. 16. Johnson BF, Wilson J, Marvaha R, et al. The comparative effects of version 1997;72:118. Samuel P, Krkendall W, Scheefer LJ, et al. Effects of isradipine sin patients with congestive heart failure. Am J Med. 1988;84(suppl 38):97-10. 16. Johnson BF, Wilson J, Marvaha R, et al. The comparative effects of version 1991;71:5-21. 18. Samuel P, Krkendall W, Scheefer LJ, et al. Effects of isradipine in patients with congestive heart failure. Am J Med. 1988;84(suppl 38):93-96. 20. Dahlot B, Anterson Harmacol Ther. 1987;42(1):66-71. 17. Klauser R, Prager R, Gaube S, et al. Metabolic effects of isradipine versus hydrochlorito-thiazide in diabetes mellitus. Hypertension 1991;71:5-21. 18. Samuel P, Krkendall W, Scheefer LJ, et al. Effects of calcium antagonist treatment on blood pressue, lipoproteins, and prostaglandins. Am J Med. 1988;84(suppl 38):93-96. 20. Dahlot B, Andren L. Eggertsen R, et al. Long-term experience with the combination of pindoloi and isradipine in essential hypertension. Am J Med. 1988;84(suppl 38):4-7. 21. Krisendall WM. Comparative assessment of linst-line agents for treatment of hypertension. Am J Med. 1988;84(suppl 38):4-7. 21. Krisendall WM. Comparative assessment of linst-line agents for treatment of hypertension. Am J Med. 1988;84(suppl 38):4-7. 21. K



Propranolol: In a single dose study in normal volunteers coadministration of propranolol had a small effect on the rate but no effect on the extent of isradipine bioavailability. Coadministration of DynaCirc® resulted in significant increases in AUC (27%) and C_{max} (58%) and decreases in I_{max} (23%) of propranolol. *Digoxin*: The concomitant administration of DynaCirc® and digoxin in a single-dose pharmacokinetic study did not affect renal, non-renal and total body clearance of digoxin. *Fentanyl Anesthesia*: Severe hypotension has been reported during fentanyl anesthesia with concomitant use of a beta blocker and a calcium channel blocker. Even though such interactions have not been seen in clinical studies with DynaCirc®, an increased volume of circulating fluids might be required if such an interaction were to coccur. Carcinogenesis, Mutagenesis, Impairment of Fertility: Treatment of male rats for 2 years with 2.5, 12.5, or 62.5 mg/kg/day isradipine admixed with the diet resulted in dose dependent increases in the incidence of benign Leydig cell tumors and testicular hyperplasia relative to untreated control animals. A comparable endocrine effect was not evident in male patients receiving therapeutic doses of the drug on a chronic basis. testicular hyperplasia relative to untreated control animals. A comparable endocrine effect was not evident in male patients receiving therapeutic doses of the drug on a chronic basis. Treatment of mice for two years with 2.5, 15, or 80 mg/kg/day isradipine in the diet showed no evidence of oncogenicity. There was no evidence of mutagenic potential based on the results of a battery of mutagenicity tests. No effect on fertility was observed in male and female rats. Pregnancy: Pregnancy Category C: There are no adequate and well controlled studies in pregnant women. DynaCirc® should be used during pregnancy only if the poten-tial benefit justilies the potential risk to the fetus. Nursing Mothers: It is not known whether DynaCirc® is excreted in human milk. A decision should be made as to whether to discon-tinue nursing or discontinue the drug, taking into account the importance of the drug to the mother. Pediatric Use: Safety and effectiveness have not been established in children.

ADVERSE REACTIONS

The adverse reaction rates given below are principally based on controlled hypertension studies, but rarer serious events are derived from all exposures to DynaCirc®, including foreign marketing experience. Most adverse reactions were mild and related to the vasodilatory effects of DynaCirc® (dizziness, edema, palpitations, flushing, tachycardia), and many were transient. About 5% of isradipine patients left studies prematurely because of many were transient. About 5% of isradipine patients left studies prematurely because of adverse reactions (vs. 3% of placebo patients and 6% of active control patients), principally due to headache, edema, dizziness, palpitations, and gastrointestinal disturbances. The following adverse reactions have been reported by 1% or greater of patients receiving DynaCirc® at any dose (N=934): headache (13.7%), dizziness (7.3%), edema (7.2%), palpi-tations (4.0%), fatigue (3.9%), flushing (2.6%), chest pain (2.4%), nausea (1.8%), dyspnea (1.8%), abdominal discomfort (1.7%), tachycardia (1.5%), rash (1.5%), pollakiuria (1.5%), weakness (1.2%), vomiting (1.1%), diarrhea (1.1%). The following adverse events were re-ported in 0.5-1% of the isradipine-treated patients in hypertension studies, or are rare, but more serious events from this and other data sources, including postmarketing exposure, are shown in italics. The relationship of these adverse events to isradipine administration is uncertain. Skin: pruritus, *urticaria*. Musculoskeletal: cramps of legs/feet. Respiratory: cough. Cardiovascular: shortness of breath, hypotension, atrial fibrillation, *entricular fibrillation, mycoardial infaction, heart falure.* Gastrointestina: abdominal discomfort, constipation, diarrhea. Urogenital: nocturia. Nervous System: drowsiness, insom-nia, lethargy, nervousness, impotence, decreased libido, depression, *syncope, paresthesia* (which includes numbness and tingling), *transient ischemic* paresthesia (which includes numbness and tingling), transient ischemic attack, stroke. Autonomic: hyperhidrosis, visual disturbance, dry mouth, numbness. Miscellaneous: throat discomfort, leukopenia, elevated liver function tests.

[DECEMBER 31, 1990 DYN-Z2]



Allen & Hanburys DIVISION OF GLAXO INC. DYN-0792-01 7/92

NEW FROM ORTHO Leader in Contraception

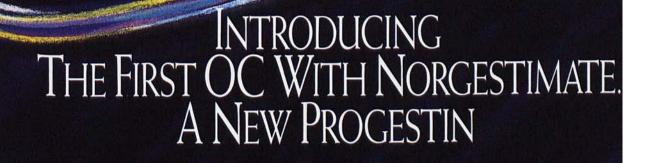
STR

SR

Ń

11

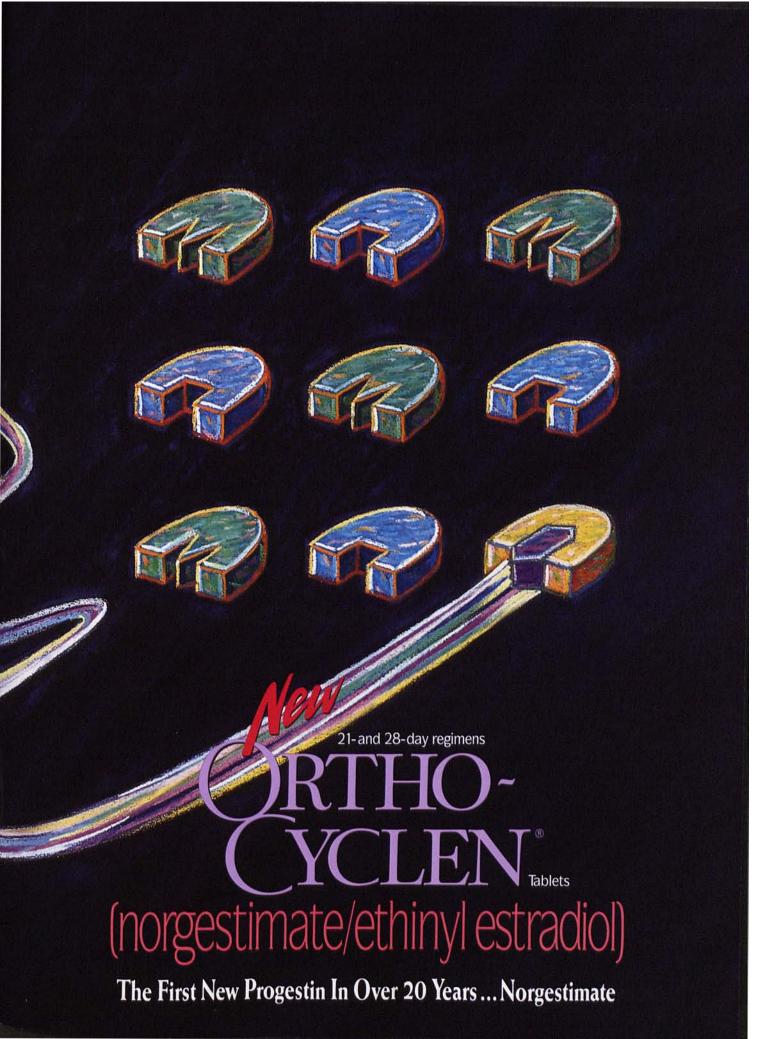
1 A



Researched and Developed by Ortho THE NEW PROGESTIN NORGESTIMATE IN COMBINATION WITH ETHINYL ESTRADIOL PROVIDES EXCELLENT EFFICACY⁺

In addition to its excellent efficacy, NEW ORTHO-CYCLEN^{*} is packaged in the unique ORTHO DIALPAK^{*} Tablet Dispenser, designed to help enhance compliance because it is so easy-to-use.

Serious as well as minor side effects have been reported with the use of oral contraceptives. The physician should remain alert to the earliest manifestations of any symptoms of serious disease and discontinue oral contraceptive therapy when appropriate. Please see complete Prescribing Information, a brief summary of which appears on the last page of this advertisement.



How do you stay current when the knowledge base of medicine doubles every few years?

Medicine advances at an amazing pace, yet you can remain current through a wealth of CME opportunities offered to you.

To keep abreast of these programs, conferences, workshops and accreditation activities, order the new Continuing Medical Education Directory.

This complete reference, just published by the American Medical Association (AMA), contains information not available anywhere else. It pulls together all the information you need to fulfill your CME obligations, including:

- CME requirements of state licensing boards, state and specialty societies, and the AMA Physician's Recognition Award.
- State and national society meeting dates.
- Easy-to-use listings of self-assessment and personalized/focused CME programs.

The Continuing Medical Education Directory serves as a unique reference for CME planners, too.

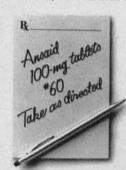
To order your copy, call 800 621-8335 (OP412492DS). The price is only \$36 for members of the AMA and \$45 for nonmembers.

American Medical Association Physicians dedicated to the health of America





INDICATIONS: Acute and long-term treatment of signs and symptoms of rheumatoid arthritis and osteoarthriti CONTRAINDICATIONS: ANSAID is contraindicated in patients who have previously demonstrated hypersensitivity to it. ANSAID should not be given to patients in whom ANSAID, aspirin, or other nonsteroidal anti-inflammato ry drugs induce asthma, urticaria, or other allergic-type reactions. Fatal asthmatic reactions have been reporter in such patients receiving this type of drug.



By didgs induce asimilar, uncarring or other allergic-type reactions: rate examinate reasoning in such patients receiving this type of drug.
WARHINGS: Risk of Gastrointestinal (G) Ulcerations, Bleeding, and Perforation Consteroidal Anti-inflammatory Therapy: Serious GI toxicly can occur at any time, with or without warning symptoms, during chronic treatment. Minor upper GI problems, such as dyspepsia, an common and usually develop early in therapy. however, remain abart for ulceration and bleeding during chronic treatment, even in the absence of previous GI toxicly can occur at any time, with or without warning symptoms. A during chronic treatment, even in the absence of previous GI toxicly can occur at any time, with or without warning symptoms of constraints and in about 2% to 4% treated for 1 year. Inform patients of gins and symptoms of serious GI toxicly and what to do if they occur. No subset of patients not at risk has been identified. Except for show been associated with increased risk (eg. ape, sex). The elderly and debilitated tolerate ulceration and bleeding less well, and what yan and anti-inflammatious geness in classing such reactions. High doses probably carry a preter text, atthough controlled clinical trials showing this do not east in most cases. When considering us of relating the relative size of various showing this do not east in most cases. When considering us of relating the relative six of various showing this do not east in most cases. When considering us of relatively large doses (within recommended dosage range), sufficient towering this showing this do not east in the inportance of this follow-wite.

The probability of the probabili

Bursing Mothers, Pediatric Use is not recommended during late pregnancy or in nursing mothers. Safety and ethicacy have not been established in children.
 AVYERSE REACTIONS: In premarketing studies, 9.4% of 4,123 patients dropped out because of adverse stability of the pressure of the premarketing studies, 9.4% of 4,123 patients dropped out because of adverse stability in the premarketing studies, 9.4% of 4,123 patients dropped out because of adverse stability in the premarketing studies, 9.4% of 4,123 patients dropped out because of adverse stability in the premarketing studies, 9.4% of 4,123 patients dropped out because of adverse stability in the pressure statement of the stability o

Store at controlled room temperature 15* to 30 °C (59" to 86 °F) Caution: Federal law prohibits dispensing without a prescription.

Upjohn The Upjohn Company Kalamazoo, MI 49001, USA

B-2-S

217

November 1992



THE OBSTACLE COURSE...







5











Tablets

HE RECOURSE



Helping overcome life's obstacles

*The average prescribed daily dose is 100 mg bid. Data on file with The Upjohn Company. As with other nonsteroidal agents, the most frequent side effect is mild gastrointestinal disturbances. © 1992 The Upjohn Company For a brief summary of prescribing information, please turn the page.

the second second

control of the Star (1) specific Rewrite weight for Status op Star (1) (1) specific star (1) (1) (1)

And the second s

Fast, effective relief for pain/inflammation.

Sprains/Strains Acute tendinitis/Bursitis Low back pain Musculoskeletal pain Soft-tissue trauma **Fast**—pain relief may occur as fast as 20 minutes. **Effective**—works at the pain site to provide relief for mild to moderate pain/inflammation.

Anti-inflammatory-nonsteroidal anti-inflammatory action helps patients return to normal activity.

Well tolerated—no narcotic-related side effects; no addiction potential.

As with other NSAIDs, the most frequent complaints are gastrointestinal. See Warnings, Precautions, and Adverse Reactions sections of prescribing information.

Convenient dosing—recommended starting dose is 550 mg, followed by 275 mg every 6 to 8 hours, as required. Total daily dose should not exceed 1375 mg.

275 MG TABLETS

R

Fast Relief. Fast Recovery. Anaprox®DS Anaprox (NAPROXEN SODIUM)

STATEX PUERTO RICO RIC

For brief summary of prescribing information, please see next page. © 1992 Syntex Puerto Rico, Inc. 811-J2-505-92

Brief Summary:

Brief Summary: Contraindications: Patients who have had allergic reactions to NAPROSYN® ANAPROX or ANAPROX BD or in whom aspirin or other NSAIDs induce the syn-drome of asthma, rhinitis, and nasal polyps. Because anaphylactic reactions usu-ally occur in patients with a history of such reactions, question patients for asthma, nasal polyps, urication, and hypotension associated with NSAIDs before starting therapy. If such symptoms occur, discontinue the drug. Warnings: Serious Git toxicity such as bleeding, ucceration, and perforation, can occur at any time, with or without warning symptoms, in patients for a large structure of the symptoms occur, discontinue the drug. Warnings: Serious Git toxicity such as bleeding, ucceration, and perforation, can occur at any time, with or without warning symptoms, in patients trated chron-cally with NSAIDs. Remein alert for ulceration and bleeding even in the absence of previous Gi tract symptoms occur in about 1 % of patients treated to 73-6 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 (s.g., age, seo) have been associated with increased risk. Elderity or debilitated patients seem to tolerate ulceration or bleeding fess well and most sponitaneous reports of fat Gi devents are in this poulation. In consid-ering the use of relatively large doses (within the recommended dosage range) sufficient benefit should be anticipated to offset the potential increased risk of Gi toxicity.

SUFICient Control to Carlos a sensitive control of Cont elderly are at greater risk of overt renal decompensation. If this occurs, discon time 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 lowpatients with baseline creatinine clearance less than 20 m/minute. Use the low-est effective dosa 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 SGPT or SGOT occurred in controlled trials in less than 1% of patients. Severe hepatic reactions, including jaundice and fatal hepatitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g., eosinophila or rash), discontinue therapy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including adrenel insufficiency and exacerbation of arthritis symptoms. effects, including adrenal insufficiency and exacerbation of arthritis symptoms. Determine hexing/bin values periodically for patients with initial values of 10 grans or less who receive long-term therapy. Peripheral edema has been reported. For patients with restricted sodium intake, note that each tablet con-tians approximately 25 or 50 mg (1 or 2 mg (3) sodium. Use with caution in patients with fluid retention, hypertension or heart failure. The drug may reduce fever and inflammation, diminishing their degnositic 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 with in figures with patients contential risks and benefits of NSAIDs narticularly which to discuss with patients potential risks and benefits of NSADs, particularly when they are used for less serious conditions where treatment without NSADs may be acceptable. Patients should use caution for activities requiring alertness may be acceptable. Patients should use caution for activities requiring alertness if they experience drowsiness, duziness, 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. Drug Interactions: Use caution when giving concomitantly with coumarin-type anticoagulants; a hydantoin, sulforamide or sulforylurea; furusemide; liftiuum, beta-blockers; probenecid, or methotrexate. Drug/Laboratory Test Interactions: Way decrease patientel aggregation and prolong bleeding time or increase urinary values for 17-ketogenic steroids. Temporarily stop therapy for 72 hours before adrenal function tests. May interfare with urinary assays of SHIAA. Carcinogenesis: A 2-year rat study showed no evi-dence of carcinogenicity. Pregnancy: Category B. Do not use during pregnancy unless clearly need: Aivoid use during late pregnancy. Muzing Mothers: Aivoid use Padiatric Use. Single doses of 25-5 mg/kg (as naproxen suspension), with total daily dose not exceeding 15 mg/kg/day, are sate in children over 2 years of age.

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 1550 mg/day naproxen sodium than in those on 255 mg/day. In children with juvenile arthritis, rash and prolonged bleeding times were more frequent, GI and CNS reactions about the same, and other reac-tions less frequent than in adults. Incidence Greater Than 1%, Probable Causal Belationship: GI. The most frequent compliants related to the GI tract: constipa-tion, heartburn, abdominal pain, nausea, dryspesia, darrhea, stomattis, CNS beadochet "dziness," drowniess, tight headedness, vertigo. Dermatologic: itching (pruritus): skin eruptions, ecchymoses, sweating, purpura. Special Senses: tinnitus, hearing disturbances, visual disturbances. Cardiovascular: edema, dryspeal Relations, General: thirst. "Incidence of reported reaction 3% - 9%. Where unmarked, incidence less than 3%. Incidence less Than 1%, Probable Causal Relationship. GI: abnormal tiver function tests, colitis, GI bleed-ing and/or perforation, hematemesis, jaundice, melena, peptic ulceration with bleeding and/or perforation, hematemesis, jaundice, melena, peptic ulceration with bleeding and/or perforation, hematemesis, jaundice, melena, peptic ulceration with schematologic: elopedican hortonece insolves and muscle wateress. Dearnal poperio, photosensitive dermatifis, kin rashes. Spe-cial Senses: hearing impairment. Cardiovascular: congestive heart failure. Respi-ratory: eosinophilic pneumonitis. General: Relationship Unknown. Hematologic: aplastic anemia, hencilytic anemia. Rol3: esteptic mengitis, cognitive dystunci-tion. Dermatologic: epidema leacrolysis, estimoting, photosensitivity eatories resembling porphyria: cutanea tarda and epidermolysis bullosa, streens ichnic and learchysis, estimetaria engioneurotic edema, hyper-glycernia, hypoglycennia.

stomatitis. Cardiovascular: vasculitis. General: angioneurotic edema, hyper-glycemia. hypoglycemia. Diverdosage: May have drowsiness, heartburn, indigestion, nausea, vomiting. A few patients have had seizures. Empty stomach and use usual supportive meas-ures. In animals 55 g/s of a criticated charcoal reduced plasma levels of naproxen. Dosage and Administration for Mild to Moderate Pain, Dysmenorrhea and Acute fendinitis and Burstits: Recommended dose is 550 mg, fol-lowed by 275 mg every 6 to 8 hours. Total daily dose should not exceed 1375 mg. Dosage and Administration for Mild to Moderate Pain, Dysmenorrhea and Ankytosing Spondytitis: Recommended dose in adults is 275 mg or 550 mg twice daily. In patients who tolerate lower doses well, the dose may be increased to 1550 mg per day for limited periods when a higher level of anti-inflammatory analgesic activity is required. At this dosage, physicians should observe suffi-cient increased clinical benefits to offset potential increased risk. Cautom: Federal law prohibits dispensing without prescription. See package insert for full Prescribing Information.

Revised 9/91



135

Anaprox D5 /Anaprox (NAPROXEN SODIUM)

American Medical Association Physicians dedicated to the health of America



re you ready to learn what they didn't teach you in med school?

You're already a complete physician. But medical practice - whether solo, partnership, or group - requires that you be a complete businessperson as well. And med school didn't cover finances, personnel management, or patient relations.

But the AMA does! In two workshops designed especially for you.

Starting Your Practice is an in-depth, two-day session that provides the knowledge you need to successfully run your own practice. Business and health law, patient relations, office efficiency, and marketing your practice.

Joining a Partnership or Group Practice is a half-day session that explores the personal, professional, and financial considerations that will affect your decisions - and your negotiations.

All workshops are conveniently scheduled so you don't miss valuable time away from your practice. Tap into the world's largest and most complete source of medical information the AMA.

For the workshop location nearest you, mail the coupon below, or call

1-800-366-6968

 \Box Please send me information on AMA **Practice Management** workshop dates and locations

□ Please send me information on hosting a workshop for our group (20 participants or more).

Name	
Title	
Organization	
Address	
City/State/ZIP	

City/S Phone

Mail to: American Medical Association **Department of Practice Management** 515 North State, Chicago, IL 60610

© 1992 Syntex Puerto Rico, Inc.

A Shape of Quality

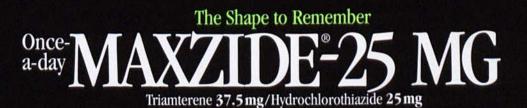
Potassium and magnesium conservation^{1,2} with the <u>optimal ratio</u> (1.5 to1) of triamterene to hydrochlorothiazide³

MAXZIDE-25 MG

®

79% of mildly hypertensive patients normalized* within 4 weeks^{1†}

Twice the bioavailability of Dyazide®3*



Diastolic BP < 90 mmHg.
 † MAXZIDE-25 MG is indicated for the treatment of hypertension or edema in patients who develop hypokalemia on hydrochlorothiazide alone or in whom the development of hypokalemia cannot be risked.
 ‡ Dyazide is a registered trademark of SmithKline Beecham Pharmaceuticals.
 © Unique tablet shape is a registered trademark of American Company.
 Please see adjacent page for brief summary of full Prescribing Information.



MAXZIDE-25 MG

Effectively controls mild-to-moderate hypertension and potassium loss

The Shape to Remember Once-**VAX** M(† Triamterene 37.5 mg/Hydrochlorothiazide 25 mg

MAXZIDE® and MAXZIDE®-25 MG Tablets Triamterene and Hydrochlorothiazide

Brief Summary Please see package insert for full prescribing information.

INDICATIONS AND USAGE

This fixed combination drug is not indicated for the initial therapy of edema or hypertension except in individuals in whom the development of hypokalemia cannot be risked.

CONTRAINDICATIONS

Elevated serum potassium levels (25.5 mEq/L). Discontinue if hyperkalemia develops. Concomitant use with other potassium-sparing agents. Concomitant potassium supplementation. Anuria, acute and chronic renal insufficiency, significant renal impairment. Hypersensitivity to either component or to other sulfonamide-derived drugs

WARNINGS

When the second elderly or severely ill patients. Since uncorrected hyperkalemia may be fatal, serum potassium levels must be monitored at frequent intervals, especially in patients first receiving MAXZIDE, when dosages are changed, or with any illness that may influence renal function.

Obtain ECG if signs and symptoms of hyperkalemia occur. Discontinue MAXZIDE immediately if hyperkalemia is present. If the serum potassium level exceeds 6.5 mEq/l, more vigorous therapy is required. Avoid MAXZIDE in diabetic patients. If used, monitor serum electrolytes. Avoid in severely ill patients in whom respiratory or metabolic acidosis may occur. If MAXZIDE is used, frequently evaluate acid/base and serum electrolytes. Use cautiously, if at all, with angiotensin-converting enzyme (ACE) inhibitors. (See PBECALTONE. Dense Intermediates)

PRECAUTIONS, Drug Interactions.)

PRECAUTIONS

Monitor for fluid or electrolyte imbalances at appropriate intervals. Do frequent serum and urine electrolyte determinations (especially when the patient is vomiting or receiving parenteral fluids). Dilutional hyponatremia may occur in edematous patients in hot weather, appropriate therapy usually is water restriction. In actual salt depletion, appropriate replacement is the therapy of choice.

Hypokalemia may develop with thiazide therapy, especially with brisk diuresis, when severe cirrhosis is present, or during concomitant use of corricosteroids, ACTH, amphotericin B or after prolonged thiazide therapy. Interference with adequate oral electrolyte intake will also contribute to hypokalemia. Hypokalemia can sensitize or exaggerate the response of the heart to the toxic effects of digitalis (eg. increased ventricular irritability). MAXTDE may provide the sense of the toxic effects of the sense of the heart to the toxic effects of digitalis (eg. increased ventricular irritability).

MAXZIDE may produce an elevated blood urea nitrogen level (BUN), creatinine level, or both. Elevations in BUN and creatinine levels may be more frequent in patients receiving divided dose diuretic therapy. Discontinue if azotemia increases.

Use with caulor in patients with impaired hepatic function or progressive liver disease and in patients with histories of renal lithiasis. Triamterene is a weak folic acid antagonist. Periodic patients with nistones of rena annass. Hunteren, but weak over a cute gout may be blood evaluations are recommended. Hyperuricemia may occur or acute gout may be

blood evaluations are recommended. Hyperunicemia may occur or acute gout may be precipitated in certain patients receiving thiazide therapy. The thiazides may decrease serum PBI level without signs of thyroid disturbance. Calcium excretion is decreased by thiazides. Pathological changes in the parathyroid gland with hypercalcemia and hypophosphatemia have been observed in a few patients on prolonged thiazide therapy. Discontinue thiazides before conducting tests for parathyroid function.

Insulin requirements in diabetic patients may be changed. Thiazides may cause manifestation of latent diabetes mellitus. Sensitivity reactions to thiazides may occur in patients with or

MAXZIDE® and MAXZIDE®-25 MG Tablets Triamterene and Hydrochlorothiazide

without a history of allergy or bronchial asthma. Possible exacerbation or activation of systemic

Unput erhibition of the second sec responsiveness to tubocurarine. Diuretics reduce renal cleanance of lithium and increase the risk of lithium toxicity.

Acute renal failure has been reported in a few patients receiving indomethacin and other formulations containing triamterene and hydrochlorothiazide. Caution is therefore advised when administering nonsteroidal anti-inflammatory agents with MAXZIDE. Use potassium-sparing agents very cautiously, if at all, in conjunction with angiotensin-converting enzyme (ACD) inhibitors due to a greatly increased risk of hyperkalemia. Monitor

Concerning creating encoded and an encoded and a special interester role of ny content of the second the adult

Thiazides appear in breast milk. If use is essential, the patient should stop nursing. Adequate information on use in children is not available.

ADVERSE REACTIONS

Side effects observed in association with the use of MAXZIDE, other combination products

Side effects observed in association with the use of MAXZIDE, other combination products containing triamterenc/hydrochlorothizzide, and products containing triamterene or hydrochlorothizzide include the following: GastroIntestinali jaundice (intrahepatic cholestatic jaundice), pancreatitis, nausea, appetite disturbance, taste alteration, vomiting, diarrhea, constipation, anorexia, gastric irritation, cramping. Central Nervous System: drowsiness and fatigue, insomnia, headache, dizziness, dry mouth, depression, anxiety, vertigo, restlessness, paresthesias. Cardiovasculari tachycardia, shortness of breath and chest pain, orthostatic hypotension (may be aggravated by alcohol, barbiturates or narcotics). Renala acute renal failure, acute interstitial nephritis, renal stones composed of triamterene in association with other calculus materials, urine discoloration. Hematologic leukopenia, agranulocytosis, thromboxytopenia, aplastic anemia. hemolytic anemia and megaloblastosis. Ophthalmics xanthopsia, transient blurred vision. Hypersensitivity: anaphylaxis, photosensitivity, rash, urticaria, purpura, necrotizing anglitis (vasculitis, cutaneous vasculitis), fever, respiratory distress including pneumonitis. Whenever advense reactions are moderate to severe, therapy should be reduced or withdrawn. Altered Laboratory Findings: Serum Electrolytes: hyperkalemia, hypotalemia, hyponatremia, hypomagnesemia, hypotohoremia (see @WARNINGS, PBECAUTONS). Creatinine, Blood Urea Nitrogera Reversible elevations in BLN and serum creatinine have been observed in unsenterentine elevations in BLN and serum creatinine have been observed in unsenterentine elevations in BLN and serum creatinine have been observed in unsenterentine elevations in BLN and serum creatinine have been observed in unsenterentine elevations in BLN and serum creatinine have been observed in unsenterentine elevations in BLN and serum creatinine have been observed in unsenterentine elevations in BLN and serum creatinine have been observed in u Urea Nitrogen: Reversible elevations in BUN and serum creatinine have been observed in hypertensive patients treated with MAXZIDE. Glucose: hyperglycemia, glycosuria and diabetes mellitus (see PRECAUTIONS). Serum Uric Acid, PBI and Calchum: (see PRECAUTIONS). Other: Elevated liver enzymes have been reported in patients receiving MAXZIDE.

Rev. 3/90 23023

References

1. Schnaper HW, Maxwell MH. Efficacy and safety of triamterene/hydrochlorothiazide combinations in mild systemic hypertension. Am J Cardiol. 1989;63:32B-36B.
 Data on file, Lederle Laboratories, Pearl River, NY.
 Physicians' Desk Reference® 46th ed. Montvale, NJ: Medical Economics Data; 1992:1215

LEDERLE LABORATORIES



A Division of American Cyanamid Company Wayne, New Jersey 07470

© 1992 Lederle Laboratories

June 1992



8504-21

NIZORAL* (ketoconazole) 2% Cream

Before prescribing please consult complete prescribing information, of which the following is a brief summary.

MICROBIOLOBY: Ketoconazole is a broad spectrum synthetic anti-fungal agent which inhibits the *in vitro* growth of the following common dermatophytes and yeasts by altering the permeability of the cell membrane: dermatophytes: *Trichophyton rubrum*, *T. mentagrophytes*, T tonsurans, Microsporum canis, M. audouini, M. gypseum and Epider mophyton floccosum; yeasts: Candida albicans, Malassezia ovale Pilyrosporum vole) and C. tropicalis, and the organism responsible for tinea versicolor, Malassezia lurfur (Pilyrosporum orbiculare). Only those organisms listed in the INDICATIONS AND USAGE Section have been proven to be clinically affected. Development of resistance to

ketoconazole has not been reported. INDICATIONS AND USABE: NIZORAL® (ketoconazole) 2% Cream is indicated for the topical treatment of tinea corporis and tinea cruris caused by Trichophyton rubrum, T. mentagrophytes* and Epidermo. phyton floccosum; in the treatment of tinea (pityriasis) versicolor caused by Malassezia furfur (Pityrosporum orbiculare); in the treat-ment of cutaneous candidiasis caused by Candida spp. and in the treatment of seborrheic dermatitis. "Efficacy for this organism in this organ system was studied in fewer

infection

CONTRAINDICATIONS: NIZORAL® (ketoconazole) 2% Cream is contraindicated in persons who have shown hypersensitivity to the active or excipient ingredients of this formulation. **WARNINGS:** NIZORAL® (ketoconazole) 2% Cream is not for ophthal-

mic us NIZORAL® (ketoconazole) 2% Cream contains sodium sulfite

anhydrous, a sulfite that may cause allergic-type reactions including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population is unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic than in nonasthmatic people

PRECAUTIONS: General: If a reaction suggesting sensitivity or chemical irritation should occur, use of the medication should be dis-continued. Hepatitis (1:10,000 reported incidence) and, at high doses, lowered testosterone and ACTH induced corticosteroid serum levels have been seen with orally administered ketoconazole; these effects have not been seen with topical ketoconazole.

Lave not deen seen with topical relationable. Carcinogenesis, Mutagenesis, Impairment of Fortility: A long-term feeding study in Swiss Albino mice and in Wistar rats showed no evidence of oncogenic activity. The dominant lethal mutation test in male and female mice revealed that single oral doses of ketoconazole as high as 80 mg/kg produced no mutation in any stage of germ cell development. The Ames' Salmonella microsomal activator assay was also neoative.

Pregnancy: Teratogenic effects: Pregnancy Category C: Ketoconazole has been shown to be teratogenic (syndactylia and oligodactylia) in the rat when given orally in the diet at 80 mg/kg/day, (10 times the maximum recommended human oral dose). However, these effects may be related to maternal toxicity, which was seen at this and higher dose levels.

There are no adequate and well-controlled studies in pregnant

In the are no adequate any wen-controlled sources studies in pregnant women. Reconazole should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Nursing Mothers: It is not known whether NIZORAL® (ketoconazole) 2% Cream administered topically could result in sufficient systemic ab-sorption to produce detectable quantities in breast milk. Nevertheless, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother. Pediatric Use: Safety and effectiveness in children have not been established

BOUNDARY CONTRACTIONS: During clinical trials 45 (5.0%) of 905 patients treated with NIZORAL® (ketoconazole) 2% Cream and 5 (2.4%) of 208 patients treated with placebo reported side effects consisting mainly of severe initiation, pruritus and stinging. One of the patients treated with NIZORAL[®] Cream developed a painful allergic reaction. **GOSAGE AND ADMINISTRATION:** Cutaneous candidiasis, tinea cor-

poris, linea cruris, and linea (plyriasis) versicolor: It is recommended that NIZORAL® (ketoconazole) 2% Cream be applied once daily to that interview of the second and the weeks in order to reduce the possibility of recurrence. Patients with tinea versicolor usually require two weeks of treatment. Seborrheic dermatitis: NIZORAL[®] (ketoconazole) 2% Cream should

be applied to the affected area twice daily for four weeks or until

clinical clearing. If a patient shows no clinical improvement after the treatment period, the diagnosis should be redetermined.

Manufactured by: ALTANA, INC., Melville, N.Y. 11747 Revised Nov. 1987, Feb. 1988 U.S. Patent No. 4,335,125 1P41J98G-M

NIZORAL[®] (ketoconazole) Tablets

Before prescribing, please consult complete prescribing information, of which the following is a brief summary.

WARNING: Ketoconazole has been associated with hepatic toxicity, including some fatalities. Patients receiving this drug should be in-formed by the physician of the risk and should be closely monitored See WARNINGS and PRECAUTIONS sections.

CLINICAL PHARMACOLOBY: NIZORAL is active against clinical infections with Blastomyces dermatitidis, Candida spp., Cocidioides immitis, Histoplasma capsulatum, Paracoccidioides brasiliensis, and Infinitios, Instoplastina Capsulatum, Paracoccidioides brasiliensis, and Philalophora Sp. It is also active against Trichophyton spp., Epidermo-phyton spp., and Microsporum spp. NIZORAL is active in vitro against a variety of lungi and yeast. In animal models, activity has been demon-strated against Candida spp., Blastomyces dermatitidis, Histoplasma capsulatum, Malassazia furtur, Coccidioides immitis, and Crypto-coccus neoformans.

INDICATIONS AND USAGE: NIZORAL (ketoconazole) is indicated for the treatment of the following systemic fungal infections: candidiasis, chronic muccoutaneous candidiasis, oral thrush, candiduria, blastomy-cosis, coccidioidomycosis, histoplasmosis, chromomycosis, and para-coccidioidomycosis. NIZORAL should not be used for fungal meningitis because it penetrates poorly into the cerebral-spinal fluid. NIZORAL is also indicated for the treatment of patients with severe recalcitrant cutaneous dermatophyte infections who have not responded to topical therapy or oral griseofulvin, or who are unable to take

CONTRAINDICATIONS: NIZORAL is contraindicated in patients who

CONTRAINDICATIONS: NIZORAL is contraindicated in patients who have shown hypersensitivity to the drug. WARNINGS: Hepalotzicity, primarily of the hepatacellular type, has been associated with the use of NIZORAL (kelocanazele), including rare fatalities. The reported incidence of hepatotaxicity has been about 1:10,000 exposed patients, but this probably represents some degree of under-reporting, as is the case for most reported adverse reactions to drugs. The median duration of kelocanazele therapy in patients who developed symptomatic hepatotaxicity was about 28 days, athough the range standed to as low as 3 days. The hepatic hairy has usually, but net always, been reversible upon discontinuation of NIZORAL (ketocanazele treatment. Several cases of hepatilis have been reported in childran. Promot recondition of there injury, is essential 1 linger function tests.

Prompt recognition of liver injury is essential. Liver function tests (such as SGGT, alkaline phosphatase, SGPT, SGOT and bilirubin) should be measured before starting treatment and at frequent intervals during treatment. Patients receiving ketoconazole concurrently with other potentially hepatotoxic drugs should be carefully monitored, particu-larly those patients requiring prolonged therapy or those who have had a history of liver disease. Most of the reported cases of hepatic toxicity have to date been

in patients treated for onychomycosis. Of 180 patients worldwide developing idiosyncratic liver dysfunction during ketoconazole therapy, 61.3% had onychomycosis and 16.8% had chronic recalcitrant dermatophytoses.

Transient minor elevations in liver enzymes have occurred during persist, if the abnormalities worsen, or if the abnormalities become accompanied by symptoms of possible liver injury.

In Fare cases anophylicits has been reported after the first days. Several cases of hypersensitivity reactions including urticaria have also been reported. In European clinical trials involving 350 patients with metastatic pros-

tatic cancer, eleven deaths were reported within two weeks of starting treatment with high doses of ketoconazole (1200 mg/day). It is not ssible to ascertain from the information available whether death was positive devices and the second secon

In female rats treated three to six months with ketoconazole at dose In ternate rats treated three to six months with ketoconazole at dose levels of 80 mg/kg and higher, increased fragility of long bones, in some cases leading to fracture, was seen. The maximum "no-effect" dose level in these studies was 20 mg/kg (2.5 times the maximum recommended human dose). The mechanism responsible for this phenomenon is obscure. Limited studies in dogs failed to demonstrate such an afficia to the methaneour end with the studies to demonstrate such an effect on the metacamals and ribs

Such an effect on the metacarpais and ribs. **PRECAUTIONS:** General: NIZORAL (ketoconazole) has been demon-strated to lower serum testosterone. Once therapy with NIZORAL has been discontinued, serum testosterone levels return to baseline values. Testosterone levels are impaired with doses of 800 mg per day and abolished by 1600 mg per day. NIZORAL also decreases ACTH induced corticosteroid serum levels at similar high doses. The recommended dese of 200 mg. 400 mg. 400 mg.

corticosteroid serum levels at similar high doses. The recommended dose of 200 mg - 400 mg daily should be followed closely. In four subjects with drug-induced achlorhydria, a marked reduction in NIZORAL absorption was observed. NIZORAL requires acidity for dis-solution. It concomitant antacids, anticholinergics, and H₂-blockers are needed, they should be given at least two hours atter NIZORAL adminis-tration. In cases of achlorhydria, the patients should be instructed to dissolve each table tin 4 m laqueous solution of 0.2 N HCl. For ingesting the resulting mixture, they should use a drinking straw so as to avoid contact with the teeth. This administration should be followed with a cup of tap water. cup of tap water.

Cup of tap water. Information for Patients: Patients should be instructed to report any signs and symptoms which may suggest liver dyslunction so that appro-prists blochemical testing can be done. Such signs and symptoms may include unusual fatigue, anerxia, nauses and/or wmiting, jaundice, dark urins or pale stools (see WARNINGS). Drug Interactions: Imidazole compounds like ketoconazole may en-berge the contengenetities and the store of the store

hance the anticoagulant effect of coumarin-like drugs. In simultaneous reatment with imidaziole drugs and cournarin drugs, the anticoagulant reatment with imidaziole drugs and cournarin drugs, the anticoagulant effect should be carefully litrated and monitored. Concomitant administration of rifampin with ketoconazole reduces

the blood levels of the latter. INH (Isoniazid) is also reported to affect ketoconazole concentrations adversely. These drugs should not be

given concomitantly. Ketoconazole increases the blood level of cyclosporin A. Blood levels of cyclosporin A should be monitored if the two drugs are given concomitantly.

Concomitant administration of ketoconazole with phenytoin may alter the metabolism of one or both of the drugs. It is suggested to

monitor both ketoconazole and phenytoin. Because severe hypoglycemia has been reported in patients concomitantly receiving oral miconazole (an imidazole) and oral hypogly-cemic agents, such a potential interaction involving the latter agents when used concomitantly with ketoconazole (an imidazole) can not be ruled out.

Preliminary evidence shows that ketoconazole inhibits the metabo-Preliminary evidence shows that ketoconazole inhibits the metabo-lism of terlenadine, resulting in an increased plasma concentration of terlenadine and a delay in the elimination of its acid metabolite. Increased plasma concentration of terlenadine or its acid metabolite may result in prolonged QT intervals. Cases of torsades de pointes and other ventricular dysrhythmias have been reported in patients taking terlenadine concurrently with ketoconazole. Concurrent administration

terfenadine concurrently with ketoconazole. Concurrent administration of terfenadine with ketoconazole is not recommended. *Carcinogenesis*, Mutagenesis, Impairment of Fertility: The dominant lethal mutation test in male and female mice revealed that single oral doses of NIZORAL as high as 80 mg/kg produced no mutation in any stage of germ cell development. The *Mmes Salmonalla* microsomal acti-vator assay was also negative. A long term feeding study in Swiss Al-bino mice and in Wistar rats showed no evidence of oncogenic activity. *Pregnancy:* Teratogenic effects: *Pregnancy Category C.* NIZORAL (keloconazole) has been shown to be teratogenic (syndactylia and oli-podactylia) in the rat when given in the diet at 80 mg/kg/day. (10 times the maximum recommended human dose). However, these effects may be related to matemal toxicity, evidence of which also was seen at this and higher dose levels. and higher dose levels.

There are no adequate and well controlled studies in pregnant women. NIZORAL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. *Nontiaratogenic effects*: NIZORAL has also been found to be embryo-

toxic in the rat when given in the diet at doses higher than 80 mg/kg during the first trimester of gestation.

In addition, dystocia (difficult labor) was noted in rats administered NIZORAL during the third trimester of gestation. This occurred when NIZORAL was administered at doses higher than 10 mg/kg (higher than 1.25 times the maximum human dose).

1.25 times the maximum human dose). It is likely that both the malformations and the embryotoxicity resulting from the administration of NIZORAL (ketoconazole) during gestation are a reflection of the particular sensitivity of the female rat to this drug. For example, the oral LO₂₀ of NIZORAL given by gavage to the female rat is 166 mg/kg whereas in the male rat the oral LO₂₀ is 287 mg/kg. Nursing Mothers: Since NIZORAL is probably excreted in the milk, mothers who are under treatment should not breast feed. Pediatric Use: NIZORAL has not been systematically studied in this dra and and account link on identifiable ac oblight.

dren of any age, and essentially no information is available on children under 2 years. NIZORAL should not be used in pediatric patients unless the potential benefit outweighs the risks.

ADVERSE REACTIONS: In rare cases, anaphylaxis has been reported after the first dose. Several cases of hypersensitivity reactions including urticaria have also been reported. However, the most frequent adverse reactions were nause and/or vomiting in approximately 3%, abdominal pain in 1.2%, pruritus in 1.5%, and the following in less than 1% of the patients: headache, dizziness, somonlence, fever and chills, photo-phobia, diarrhea, gynecomastia, impotence, thrombocytopenia, leukophobia, diarrhea, gynecomastia, impotence, thrombocytopenia, leuko-penia, hemolytic anemia, and bulging fontanelles. Oligospernia has been reported in investigational studies with the drug at dosages above those currently approved. Although oligospernia has not been reported at dosages up to 400 mg daily, sperm counts have been obtained infrequently in patients treated with these dosages. Most of these reactions were mild and transient and rarely required discontinuation require special attention (see WARNINGS). Neuropsychiatric disturbances, including suicidal tendencies and severe depression. have nocurred rarely in patients using NIZORAI

evere depression, have occurred rarely in patients using NIZORAL. OVERDOSAGE: In the event of accidental overdosage, supportive measures, including gastric lavage with sodium bicarbonate, should be employed.

Rev. March 1989, April 1991 U.S. Patent 4,335,125

NIZORAL[®] (ketoconazole) 2% Shampoo

Before prescribing, please consult complete prescribing information of which the following is a brief summary.

 $\rm MICROBIOLOGY: \rm NIZORAL^{\textcircled{C}}$ (ketoconazole) is a broad-spectrum synthetic antifungal agent which inhibits the growth of the following common dermatophytes and yeasts by altering the permeability of the cell membrane: dermatophytes: Trichophyton rubrum, T. mentagro-Cell memorale. Demacophytes: Inchophyton Tubrum, I. memoragio-phytes, T. tonsurans, Microsporum canis, M. audouini, M. gyposeum and Epidermophyton floccosum; yeasts: Candida albicans, C. tropicalis, Pityrosporum ovale (Malassezia ovale) and Pityrosporum orbiculare (M. furfur). Development of resistance by these microorganisms to ketoconazole has not been reported.

INDICATIONS AND USAGE: NIZORAL® (ketoconazole) 2% Shampoo is indicated for the reduction of scaling due to dandruff. CONTRAINDICATIONS: NIZORAL® (ketoconazole) 2% Shampoo is

CONTRAINDICATIONS: NiCURAL¹²⁹ (ketoconazole) 2% Shampoo is contraindicated in persons who have shown hypersensitivity to the active ingredient or excipients of this formulation. **PRECAUTIONS: General:** If a reaction suggesting sensitivity or chemi-cal irritation should occur, use of the medication should be discontinued. **Information for Patients:** May be irritating to mucous membranes of the eyes and contact with this area should be avoided. There have been reports that use of the shampoo resulted in removal of the curl from permanently waved hair.

of the curi from persently waved hair. Carcinogenesis, Mutagenesis, Impairment of Fertility: The

dominant lefthal mutation test in male and female mice revealed that single oral doses of ketoconazole as high as 80 mg/kg produced no mulation in any stage of germ cell development. The Ames Salmonella microsomal activator assay was also negative. A long-term feeding study of ketoconazole in Swiss Albino mice and in Wistar rats showed po evidence of operaneiro estivity. no evidence of oncogenic activity.

Prognancy: Teratogenic advised Ketoconazole is not detected in plasma after chronic shampooing. Ketoconazole has been shown to be teratogenic (syndactylia and oligodactylia) in the rat when given orally in the diet at 80 mg/kg/day (10 times the maximum recommended human oral dose). However, these effects may be related to maternal toxicity, which was seen at

this and higher dose levels. There are no adequate and well-controlled studies in pregnant women. Ketoconazole should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing mothers: Ketoconazole is not detected in plasma after chronic shampooing. Nevertheless, caution should be exercised when NIZORAL® (ketoconazole) 2% Shampoo is administered to a nursing

Pediatric Use: Safety and effectiveness in children have not been

ADVERSE REACTIONS: In 11 double-blind trials in 264 patients using ketoconazole 2% shampon an increase in normal hair loss and irritation occurred in less than 1% of patients. In three open-label safety trials In which 41 patients shampooed 4-10 times weekly for six months, the following adverse experiences each occurred once: abnormal hair tex-

tollowing adverse experiences each occurred once: abnormal hair tex-ture, scalp pustules, mild dryness of he skin, and itching. As with other shampoos, oiliness and dryness of hair and scalp have been reported. **OVERDOSABE:** NIZORAL[®] (ketoconazole) 2% Shampoo is Intended for external use only, in the event of ingestion, supportive measures, including gastric lavage with sodium bicarbonate, should be employed. **NOW SUPPLIED:** NIZORAL[®] (ketoconazole) 2% Shampoo is a pink liquid supplied in a 4-fluid ounce nonbreakable plastic bottle (NDC 50458-223-04).

Storage conditions: Store at a temperature not above 25°C (77°F). Protect from light.

Manufactured by: Janssen Pharmaceutica n.v., Beerse, Belgium Printed June 1990 U.S. Patent No. 4,335,125 7500001-N

7500001-M

Distributed by: Janssen Pharmaceutica Inc., Titusville, NJ 08560

world leader in antimycotic research



Looressor[®]

metoprolol tartrate USP

Tablet

BRIEF SUMMARY (FOR FULL PRESCRIBING INFORMATION, SEE PACKAGE INSERT) INDICATIONS AND USAGE

Hyperte

Lopressor tablets are indicated for the treatment of hypertension. They may be used alone or in combination with other antihypertensive agents. Angina Pectorts

Lopressor is indicated in the long-term treatment of angina pectoris. Myocardial Interction

Nyceardial Infarction Lopressor ampuls and tablets are indicated in the treatment of hemodynamically stable patients with definite or suspected acute myocardial infarction to reduce cardiovascular mortality. Treatment with intravenous Lopressor can be initiated as soon as the patient's clinical condition allows (see DOSAGE AND ADMINISTRATION, CONTRAINDICATIONS, and WARNINGS). Alternatively, treatment can begin within 3 to 10 days of the acute event (see DOSAGE AND ADMINISTRATION). CONTRAINDICATIONS

Hypertension and Angina Lopressor is contraindicated in sinus bradycardia, heart block greater than first degree, cardiogenic shock, and overt cardiac failure (see WARNINGS). Myocardial infarction

Lopressor is contrained and third-degree heart block; significant first-degree heart block (P-R interval \geq 0.24 sec); systolic blood ssure < 100 mmHg; or moderate-to-severe cardiac failure (see WARNINGS). WARNINGS

Hypertension and Angina

Hypertansion and Angina Cardiac Failure: Sympathetic stimulation is a vital component supporting circulatory function in congestive heart failure, and beta blockade carries the potential hazard of further depressing mycardial contractility and precipitating more severe tailure. In hypertensive and angina patients who have congestive heart failure controlled by digitalis and diuretics, Lopressor should be administered cautiously. Both digitalis and Lopressor slow AV conduction.

administered cautously, bour unificates and connected association in Patients Without a History of Cardiac Failura: Combined depression of time can, in some cases, lead to cardiac failure. At the first sign or symptom of impending cardiac failure, patients should be fully digitalized and/or given a diuretic. The response should be observed closely. If cardiac failure continues, despite adequate digitalization and diuretic therapy. Lopressor should be withdrawn.

Ischemic Heart Disease: Following abrupt cessation of therapy with certain beta-blocking agents, exacerbations of angina pectoris and, in some cases, myocardial infarction have occurred. When discontinuing chronically administered Lopressor, particularly in patients with ischemic heart disease, the dosage should be gradually reduced over a period of 1-2 weeks and the patient should be carefully monitored. If angina markedly worsens or acute coronary insufficiency develops, Lopressor administration should be reinstated promptly, at least temporarity, and other measures appropriate for the management of unstable angina should be decause. Dronary attery disease is common and may be unrecognized, it may be prudent not to discontinue Lopressor. hypertension

Registering of the series of t

may augment the risks of general anesthesia and surgical

procedures. Lopressor, like other beta blockers, is a competitive inhibitor of Lopressor, like other beta blockers, is a competitive inhibitor of beta-receptor agonists, and its effects can be reversed by administration of such agents, e.g., dobutarnine or isoproterenol. However, such patients may be subject to protracted severe hypotension. Difficulty in restarting and maintaining the heartbeat has also been reported with beta blockers. Diabetes and Hypoglycemia: Lopressor should be used with caution in diabetic patients if a beta-blocking agent is required. Beta blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be sionificantly affected

other manifestations such as dizziness and sweating may not be significantly affected. *Thyrotucizossis:* Beta-adrenergic blockade may mask certain clinical signs (e.g., tachycardia) of hyperthyroidism. Patients suspected of developing thyrotoxicosis should be managed carefully to avoid abrupt withdrawal of beta blockade, which might precipitate a thyroid storm. **Cardiae Failure:** Sympathetic stimulation is a vital component supporting circulatory function, and beta blockade carries the potential hazard of depressing myocardial contractility and precipitating or exacerbating minimal cardiae failure. During treatment with Lopressor, the hemodynamic status of the patient should be carefully monitored. If heart failure occurs or

persists despite appropriate treatment. Looressor should be discontinued

lycardia: Lopressor produces a decrease in sinus heart rate in most patients, this decrease is greatest among patients with high initial heart rates and least among patients with low initial heart rates. Acute myocardial infarction (particularly inferior infarction) may in itself produce significant lowering of the sinus rate. If the sinus rate decreases to < 40 beats/min, particularly if associated with evidence of lowered cardiac output, atropine (0.25-0.5 mg) should be administered intravenously. If treatment with atropics not successful, Lopressor should be discontinued, and cautious administration of isoproterenol or installation of a cardiac

administration of isoproterenol or installation of a cardiac pacemaker should be considered. **AV Block:** Lopressor slows AV conduction and may produce significant first- (P-R interval ≥ 0.26 sec), second-, or third-degree heart block. Acute myocardia infraction also produces heart block. If heart block occurs, Lopressor should be discontinued and atropine (0.25-0.5 mg) should be administered intravenously. If treatment with atropine is not successful, cautious administration of isoproterenol or installation of a cardiac pacemaker should be considered. considered.

Appoleration: If hypotension (systolic blood pressure ≤ 90 mmHg) occurs, Lopressor should be discontinued, and the hemodynamic status of the patient and the extent of myocardial damage carefully assessed. Invasive monitoring of central venous, pulmonary capillary wedge, and arterial pressures may be required. Appropriate therapy with fluids, positive inotropic agents, balloon Appropriate treating with holes, positive induction agents, ball counterpulsation, or other treatment modalities should be instituted. If hypotension is associated with sinus bradycardia (AV block, treatment should be directed at reversing these (see rdia or above).

adove). Bronchospastic Diseases: PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD, IN GENERAL, NOT RECEIVE BETA BLOCKERS. Because of its relative beta, selectivity, Lopressor may be used with extreme caution in patients with bronchospastic disease. Because it is unknown to what extent

bronchospastic disease. Because it is unknown to what extent beta, -stimulating agents may exacerbate myocardial ischemia and the extent of infarction, these agents should *not* be used prophytactically. If bronchospasm not related to congestive heart failure occurs, Lopressor should be discontinued. A theophylline derivative or a beta, agonist may be administered cautiously, depending on the clinical condition of the patient. Both theophylline derivatives and beta, agonists may produce serious cardiac arrhythmias. ac arrhythmias. PRECAUTIONS

General

Lopressor should be used with caution in patients with impaired hepatic function.

Patients should be advised to take Lopressor regularly and continuously, as directed with or immediately following meals. If a dose should be missed, the patient should take only the next scheduled dose (without doubling it). Patients should not discontinue Lopressor without consulting the physican. Patients should be advised (1) to avoid operating automobiles and machinery or engaging in other tasks requiring alterness until the patient's response to therapy with Lopressor has been determined; (2) to contact the physican if any difficulty in breathing occurs; (3) to inform the physican of dentist before any type of surgery that he or she is taking Lopressor. Laboratory frests Clinical laboratory findings may include elevated levels of serum transaminase, alkaline phosphatase, and lactate dehydrogenase. Drug interactions

transartitiese, analyte prospirateser, and actuate any actuation of the prospirateser and a second a second and a second a seco

marked bradycarda, which may produce veruge, syncope, or postural hypotension. *Risk of Anaphylactic Reaction:* While taking beta-blockers, patients with a history of severe anaphylactic reaction to a variety of allergens may be more reactive to repeated challenge, either accidental, diagnostic, or therapeutic. Such patients may be unresponsive to the usual doses of epinephrine used to treat admine accidental.

Carcinogenesis, Mutagenesis, Impairment of Fertility Long-term studies in animals have been conducted to evaluate Long-term studies in animals have been conducted to evaluate carcinogenic potential. In a 2-year study in rats at three oral dosage levels of up to 800 mg/kg per day, there was no increase in the development of spontaneously occurring benign or malignant neoplasms of any type. The only histologic changes that appeared to be drug related were an increased incidence of generally mild focal accumulation of foarny macrophages in pulmonary alveoli and a slight increase in binary type. The only histologic changes that appeared to be drug related were an increased incidence of generally mild focal accumulation of foarny macrophages in pulmonary alveoli and a slight increase in binary type prisa. In a 21-month study in Swiss albino mice at three oral dosage levels of up to 750 mg/kg per day, benign lung tumors (small adenomas) occurred more frequently in tenale mice receiving the highest dose than in untreated control animals. There was no increase in malignant or total (benign plus malignant) lung tumors, nor in the overall incidence of tumors or malignant tumors. This 21-month study was repeated in CD-1 mice, and no statistically or biologically significant differences were observed between treated and control se in

incodence of tumors of malgrant tumors. Inis 21-month study was repeated in CD-1 mice, and no statistically or biologically significant differences were observed between treated and control mice of either sex for any type of tumor. All mutagenicity tests performed (a dominant lethal study in mice, chromosome studies in somatic cells, a Salmonella/ mammalian-microsome mutagenicity tests, and a nucleus anomaly test in somatic interphase nuclei) were negative. No evidence of impaired fertility due to Lopressor was observed in a study performed in rats at doses up to 55.5 times the maximum daily human dose of 450 mg. **Pregnancy Category C** Lopressor has been shown to increase postimplantation loss and decrease neontatil survival in rats at doses up to 55.5 times the maximum daily human dose of 450 mg. Distribution studies in mice confirm exposure of the fetus when Lopressor is administered to the pregnant animal. These studies have revealed no evidence of impaired fertility due to treatogenicity. There are no adequate and well-controlled studies in pregnant worme. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. **Mursion Morthers**.

rsing Mothers

Lopressor is excreted in breast milk in very small quantity. An

infant consuming 1 liter of breast milk daily would receive a dose of less than 1 mg of the drug. Caution should be exercised when Lopressor is administered to a nursing woman.

distric Line

Satety and effectiveness in children have not been established. ADVERSE REACTIONS

Aurerste inclusions Hypertension and Angine Most adverse effects have been mild and transient. Central Nervous System: Tredness and dizzness have occurred in about 10 of 100 patients. Depression has been reported in about 5 of 100 patients. Merital confusion and short-term memory loss have been reported. Headache, nightmares, and insomnia have

S UI 100 patients. Winterfail united and stort can interimery uses have been reported. Headcache, nightmanes, and insomma have also been reported. Cardiovascular: Shortness of breath and bradycardia have occurred in approximately 3 of 100 patients. Cold extremities; arterial insufficiency, usually of the Raynaud type; palpitations; congestive heart failure; penpheral adema, and hypotension have been reported in about 1 of 100 patients. (See CONTRAINDEATIONS, WARNINGS, and PRECAITOWS.) Respiratory: Wheating (foronchospasm) and dyspnea have been reported in about 1 of 100 patients. (See CONTRAINDEATIONS, WARNINGS, and PRECAITOWS.) Respiratory: Wheeting (foronchospasm) and dyspnea have been reported in about 1 of 100 patients. (See CONTRAINDEATIONS, WARNINGS, and PRECAITOWS.) Respiratory: Wheseing (foronchospasm) and dyspnea have been reported in about 1 of 100 patients. See WARDINGS). Subsequences and the about 1 of 100 patients. See WARDINGS, and the about 1 of 100 patients. Nuscease, dry mouth, gastric pain, consistention, fitabilence, and heartburn have been reported in about 5 of 100 patients. Worsening of psoriasis has also been reported. Miscentianeous: Peyronie's disease has been reported in flower than 1 of 100,000 patients. Musculosteletal pain, blurned vision, and tinnitis have also been reported with Lopressor. Myoardial Infanction Contral endorus Syndrome associated with the beta blocker practiol has not been reported with Lopressor. Myoardial Infanction Control Monous Syndrome associated, discuestions, headache, disciness, visual disturbances, confusion, and reduced libido have also been reported. University and reduced comparison of Lopressor and placebo described in the context. Low See reported. 27.4% 20.2%

	Lopressor	Placebo
Hypotension (systolic BP < 90 mmHq)	27.4%	23.2%
Bradycardia (heart rate < 40 beats/min)	15.9%	6.7%
Second- or third-degree heart block	4.7%	4.7%
First-degree heart block (P-R ≥ 0.26 sec)	5.3%	1.9%

Respiratory: Dyspnea of pulmonary origin has been reported in fewer than 1 of 100 patients. Gastrointestinal: Nausea and abdominal pain have been reported in fewer than 1 of 100 patients. Dermatologic: Rash and warmand

Dermationale: Rash and worsened psoriasis have been reported, but a drug relationship is not clear. Miscellaneous: Unstable diabetes and claudication have been

Potential Adverse Reactions A variety of adverse reactions not listed above have been reported

A variety of adverse reactions not listed above have been reported with other behavadrenergic blocking agents and should be considered potential adverse reactions to Lopressor. Central Nenrous System: Reversible mental depression progressing to catatonia; an acute reversible syndrome characterized by disorientation for time and place, short-term memory loss, emotional lability, slightly clouded sensorium, and decreased performance on neuropsychometrics. Cantificationa times ification of AV block (see Contranumerations).

CONTRAINDICATIONS).

Hematologic: Agranulocytosis, nonthrombocytopenic purpura, thrombocytopenic purpura. Hypersensitive Reactions: Fever combined with aching and sore

throat, taryngospasm, and respiratory distress. OVERDOSAGE Acute Toxicity

Several cases of overdosage have been reported, some leading to

ucan. Oral LD_{2x}'s (mg/kg): mice, 1158-2460; rats, 3090-4670. Signs and Symptoms Potential signs and symptoms associated with overdosage with Lopressor are bradycardia, hypotension, bronchospasm, and cardiac failure.

There is no specific antidote.

In general, patients with acute or recent myocardial infarction may be more hemodynamically unstable than other patients and should be treated accordingly (see WARNINGS, Myocardial Infarction)

Interction). On the basis of the pharmacologic actions of Lopressor, the following general measures should be employed: Elimination of the Drug: Gastric krage should be performed. Bradycardia: Aropine should be administered. If there is no response to vagal blockade, isoproterenoi should be administered optimized.

cautiously. Hypotenzion: A vasopressor should be administered, e.g.,

levarterenol or dopamine.

evariaremoi or dopamine. Bronchospasmir: A beta_stimulating agent and/or a theophylline derivative should be administered. Cardiae Fallare: A digitalis glycoside and diuretic should be administered. In shock resulting from inadequate cardiac contractility, administration of dobutamine, isoproterenol, or glucagon may be considered. Printed in U.S.A. C92-26 (Rev. 4A

C92-26 (Rev. 4/92)

Geigy

GEIGY Pharmaceuticals Division of CIBA-GEIGY Corporation

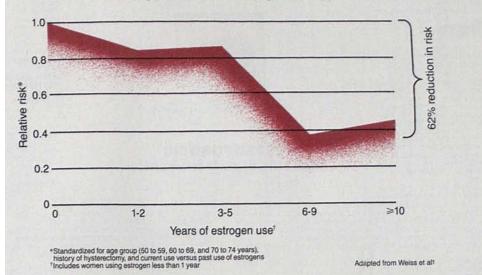
LAVISION OF CIEAR-JEICY COmportation Archsley, New York 10502 1. 1988 Joint National Committee. The 1988 report of the Joint National Committee on Detection, Evaluation, and Treatment of High Blood Pressure. Arch. Intern Med. 1988;148:1023-1038. © 1992, CIBA-GEIGY Corporation. 536-23029-A



PREMARIN® 0.625 mg prevents postmenopausal osteoporosis and reduces the risk of hip and wrist fractures by as much as 62%¹

Start early and continue long-term for maximum osteoporosis benefits

Relative risk of hip and wrist fractures in postmenopausal women according to duration of estrogen therapy



Contraindications

Estrogens should not be used in women (or men) with any of the following conditions: known or suspected 1) pregnancy, 2) breast cancer, 3) estrogendependent neoplasia, 4) undiagnosed abnormal genital bleeding, 5) active thrombophlebitis or thromboembolic disorders.

Note: Estrogens have been reported to increase the risk of endometrial carcinoma in postmenopausal women.

PREMARIN[®] (conjugated estrogens tablets) 0.625 mg

OSTEOPOROSIS The only cure is prevention

Please see brief summary of prescribing information on next page.

BRIEF SUMMARY (FOR FULL PRESCRIBING INFORMATION AND PATIENT INFORMATION, SEE PACKAGE CIRCULARS

PREMARIN® Brand of conjugated estrogens tablets, USP PREMARIN® Brand of conjugated estrogens Vaginal Cream, in a nonliquefying base

ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA. Close clinical surveillance of all women taking estrogens is important. Adequate diagnostic measures including endometrial sampling when indicated should be undertaken to rule out malignancy in all cases of undiagnosed persistent or recurring abnormal vaginal bleeding. There is currently no evidence that matural estrogens are more or less hazardous than "synthetic" estrogens at equiestrogenic doess. 2. ESTROGENS SHOULD NOT BE USED DURING PREGNANCY.

2 ESTROGENS SHOULD NOT BE USED DURING PREGNANCY. Estrogen therapy during pregnancy is associated with an increased risk of congenital defects in the reproductive organs of the male and female fetus, an increased risk of vaginal adenosis, squamous-cell dysplasia of the uterine cervix, and vaginal cancer in the female fater in life. The 1985 DES Task Force concluded that women who used DES during their pregnancies may subsequently experience an increased risk of breast cancer. However, a causal relationship is still unproven, and the observed level of risk is similar to that for a number of other breast cancer risk factors. There is no indication for estrogen therapy during pregnancy. Estrogens are ineffective for the prevention or treatment of threatened or habitual abortion.

DESCRIPTION: PREMARIN (conjugated estrogens, USP) contains a mixture of estrogens, obtained ex-clusively from natural sources, blended to represent the average composition of material derived from pregnant mares urine. It contains estrone, equilin, and

preprint mates only in the moment exhibits exhibits equipment of Tra-dihydroxequilin, logether with smaller amounts of Tra-estratiol, equilenin, and 17a-esthydroxequilenin as salts of their sultate setters. Tablets are available in 0.3 mg, 0.625 mg, 0.9 mg, 1.25 mg, and 2.5 mg strengths of conjugated estrogens, Cream is available as 0.625 mg conjugated estrogens per gram.

INDICATIONS AND USAGE: Moderate-to-severe vasomotor symptoms associated with the menopause. (There is no evidence that estrogens are effective for nervous symptoms or depression which might occur during menopause and they should not be used to treat these conditions.) Prevention and management of osteoporosis (abnormally low bone mass). Atrophic vaginitis. Atrophic urethritis. Hypoestrogenism due to hypogonadism, cas-terior or more analysis hintone. tration or u

ration or primary ovarian failure. PREMARIN (conjugated estrogens) Vaginal Cream is ndicated in the treatment of atrophic vaginitis and krautosis vulvae

PREMARIN HAS NOT BEEN SHOWN TO BE EFFECTIVE FOR ANY PURPOSE DURING PREGNANCY AND ITS USE MAY CAUSE SEVERE HARM TO THE FETUS (SEE BOXED WARNING

CONTRAINDICATIONS: Estrogens should not be used in women (or men) with any of the following conditions: 1. Known or suspected pregnancy (see Boxed Warning). 2. Known or suspected cancer of the breast except in appropriately selected patients being treated for meta-static disease. 3. Known or suspected estrogen-depen-dent meta-based of the breast except in static disease. A known of suspected estrogen-depen-dent neoplasia. 4. Undiagnosed ahnormal genital bleeding. 5. Active thrombophlebitis or thromboembolic disorders. 6. Estrogen replacement therapy has not been reported to increase the risk of thrombophlebitis and/or thromboembolic disease. However, there is insufficient information regarding women who have had previous thermboenbelic disease. thromboembolic disease.

PREMARIN Tablets and Vaginal Cream should not be ed in patients hypersensitive to their ingredients.

used in panetics hypersensitive to their ingleuents. WARNINGS: Some studies suggest a possible increased incidence of breast cancer in women taking higher doses of estrogen for prolonged time periods. The majority of studies have not shown an association with usual estrogen replacement doses. Endometrial cancer risk among estrogen users was about 4-hold or grazient than in non-users, and appears dependent on Ireatment duration and estrogen doset no patients on combined estrogen-progestin therapy, this risk appears to be decreased. (See PRECAUTIONS below.)

Estrogen therapy during pregnancy is associated with an increased risk of letal congenital reproductive tract dis

A 2.5-fold increase in the risk of surgically confirmed gall bladder disease in women receiving

A 2.5-told increase in the risk of surgically confirmed gall bladder disease in women receiving postmenopausal estrogens has been reported. Large doess of estrogen such as those used to treat prostate and breast cancer have been shown to increase the risk of non-fatal myocardial infarction, pulmonary embolism, and thrombophiebitis in men. This cannot necessarily be extrapolated to women. However, to avoid theoretical cardiovascular risk caused by high estrogen doses, the doses for estrogen replacement therapy should not exceed the recommended dose. Biodo pressure should be monitored with estrogen use, especially if high doses are used Estrogens may lead to severe hypercalcemia in patients with breast cancer and bone metastases. **PRECAUTIONS:** The addition of a progestin for 7 or more days of a cycle of estrogen administration reportedly lowers the incidence of endometrial hyperplasia. Studies of endometrium suggest that 10 to 13 days of progestin are needed to provide maximal endometrial maturation and elimination of hyperplastic changes. Additional risks, such as adverse effects on carbohydrate and lipid metabolism, may be associated with the inclusion. of progestin in estrogen regimens. The choice of progestin and dosage may be important in minimizing these adverse effects. Physical examination and a complete medical and family history should be taken prior to the initiation of

PREMAK (conjugated estrogens tablets)



The appearance of this tablet is a trademark of Wyeth-Ayerst Laboratories.

OSTEOPOROSIS The only cure is prevention

any estrogen therapy with special reference to blood pressure, breasts, abdomen, and pelvic organs, and should include a Papanicolaou smear. As a general rule, estrogen should not be prescribed for longer than one year without another physical examination being performed. Conditions influenced by fluid referentions, such a sathma, epilepsy, migraine, and cardiac or renal dysfunction, require careful observation. Certain patients may develop manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding and mastodyna. Pre-exciting uterine leiomyomata may increase in size during estrogen use. Estrogen should be used with care in patients with impaired liver function, renal insufficiency, or metabolic bone diseases associated with howercalcemia.

be used with care in patients with impaired liver function, renal insufficiency, or metabolic bone diseases associated with hypercalcemia. The following drug/laboratory test interactions have been reported, some only with estrogen-progestin combinations (oral contraceptives). 1 increased prothrombin and factors VII, VIII, IX, and X; decreased antithrombin 3; increased nor-epinephrine-induced platelet aggregability. 2. Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid binding globulin (TBG) leading to increased circulating total thyroid binding clotum or by radioimmunoassay. Free T₃ resin uptake is decreased, reflecting the elevated TBG; the T₄ concentration is unaltered.

Impaired glucose tolerance. Reduced response to metyrapone test.

MUTAGENESIS AND CARCINOGENESIS: Long-term, continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, cervix, vagina, and

PREGNANCY CATEGORY X: Estrogens should not be used during pregnancy See CONTRAINDICATIONS

and Boxed Warning. NURSING MOTHERS: As a general principle, the ad-ministration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excreted in human milk.

ADVERDS ARACTIONS: The following have been re-ported with settings: The following have been re-ported with settings: changes in vaginal bleed-ing pattern and abnormal withdrawal bleeding or flow breakthrough bleeding, spotting, increase in size of uler-ine fibromyomata, vaginal candidiasis, change in amount of cervical secretion; tenderness or enlargement of breasts; nausea, vomiting, abdominal cramps, bloating, cholestatic jaundice; chloasma or melasma that may per-sist when drug is discontinued, erythema multiforme erythema nodosum, hemorrhagic eruption, loss of scalp hair, hirsutism; steepening of corneal curvature, intol-erance to contact lenses, headache, migraine, dizziness, mental depression, chorea; increase or decrease in weight; reduced carbohydrate tolerance; aggravation of porphyria; edema; changes in libido. ACUTE OVERDOSAGE: May cause nausea and

ACUTE OVERDOSAGE: May cause nausea and

DOSAGE AND ADMINISTRATION: PREMARIN® Brand of conjugated estrogens tablets, USP

this tablet is a yerst Laboratories. PROSIS Sprevention and of this period, the same dosage schedule is repeated. Female castration or primary ovarian failure—125 mg daily, cyclically. Adjust upward or downward according to response of the patient. For maintenance, adjust dosage to lowest level that will provide effective control. Brook and this period, the same dosage schedule is repeated. Female castration or primary ovarian failure—125 mg daily, cyclically. Adjust upward or downward according to repeate of the mater and the patient. For maintenance, adjust dosage to lowest level that will provide effective control. Broopporties—0.825 mg daily. Administration should be cyclic (eg, three weeks on and one week off). Given cyclically for short-term use only. For treatment

PREMARINE Brand of conjugated estrogens Vaginal Cream Given cyclically for short-term use only. For treatment of atrophic vaginitis or kraurosis vulvae. The lowest dose that will control symptoms should be chosen and medication should be discontinued as

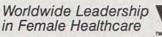
The lowest dose that will control symptoms should be chosen and medication should be discontinued as omptly as possible. Attempts to discontinue or taper medication should be made at three- to six-month intervals. Usual dosage range: 2 g to 4 g daily, intravaginally, depending on the severity of the condition. Patients with an intact uterus who are treated with either PREMARIN Tablets or Vaginal Cream should be onitored for signs of endometrial cancer and appropriate measures taken to rule out malignancy in the event interview in the content specific blocks. of persistent or recurring abnormal vaginal bleeding.

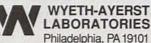
Revised August 21, 1989

70662R

Reference:

1. Weiss NS, Ure CL, Ballard JH, et al: Decreased risk of fractures of the hip and lower forearm with Imenopausal use of estrogen. N Engl J Med 1980;303:1195-1198.





©1991 Wyeth-Ayerst Laboratories

TWO LANDMARK STUDIES,^{1,2} PRESENTED AT THE 1992 AMERICAN COLLEGE OF CARDIOLOGY MEETING,

FINALLY RESOLVED



LANOXIN IS EFFECTIVE IN CONGESTIVE **HEART FAILURE PATIENTS IN NORMAL** SINUS RHYTHM, WITH OR WITHOUT AN ACE INHIBITOR.1,2**

The RADIANCE-Randomized Assessment of Digoxin on Inhibitors of the ANgiotensin Converting Enzymestudy was a multicenter, randomized, double-blind, placebo-controlled study of digoxin in CHF patients receiving diuretics and ACE inhibitors.

The PROVED—Prospective Randomized study of Ventricular failure and the Efficacy of Digoxin—study was a multicenter, randomized, double-blind, placebo-controlled study of digoxin in CHF patients receiving diuretics.



Please see brief summary of prescribing information below.

LANOXIN® (DIGOXIN) TABLETS

Before prescribing, physicians should be thoroughly familiar with all aspects of this cardiac (or digitalis) glycoside as discussed in the full prescribing information.

Brief Summary

CONTRAINDICATIONS:

ventricular fibrillation, (2) an untoward effect requiring discontinuation of other digitalis prepara-tions, and (3) a hypersensitivity or allergy to digoxin.

WARNINGS: The use of digoxin for the treatment of obesity is dangerous since it may cause potentially fatal arrhythmias. Andrexia, nausea, vomiling and arrhythmias may be indications of digitalis foxicity. If so, digoxin should be temporarily withheid when possible. Patients with renal insufficiency require smaller than usual maintenance doses of digoxin. Heart failure accompanying acute glomerulonebrilis requires extreme care in digitalization and careful monitoring. Relatively low loading and maintenance doses and concomitant use of antihypertensive drugs may be necessary. Digoxin should be discontinued as soon as possible in this setting. Patients with severe careful service and individualize to digoxin-induced rhythm disturbances. Newborn infants display considerable variability in their tolerance to digoxin with premature and immature infants being particularly sensitive: reduce and individualize dosage accordingly. Note: Digoxin is an important cause of accidental poisoning in children.

important cause of accidental poisoning in children. **PRECAUTIONS:** Digoxin toxicity develops more frequently and lasts longer in patients with renal impair-ment because of the decreased excretion of digoxin. Normal potassium lawels should be main-tained in patients treated with digoxin. Calcium, particularly when administered rapidly by the intra-venous roule, may produce serious arrhythmias in digitalized patients. Hypercalcemia predisposes the patient to digitalis toxicity, whereas hypocalceme can cause digoxin to become ineffective. Patients with acute myocar-dal infarction or severe pulmonary disease may be unusually sensitive to digoxin-induced rythrim disturbances. Atrial arrhythmias associated with hypermetabolic states are particularly resistant to digoxin treatment. Large doses of digoxin are not recommended as the only treatment of these arrhythmias; if large doses are required, be careful to avoid toxicity. In hypothyroidism, digoxin requirements are reduced. Reduction of digox-in dosage may be desirable before electrical cardioversion to avoid induction of ventricular arrhythmias. It digitalis toxicity is suspected, elective cardioversion to avoid induction of ventricular arrhythmias. It digitalis toxicity is suspected, elective cardioversion to avoid induction of ventricular arrhythmias with Stokes-Adams atlacks. Digoxin may worsen sinus bradycardia or sinoatrial block in patients with incomplete AV Parkinson-While Syndrome and atrial librillation. Because it may worsen the outflow obstruction in patients with idiopathic hypertrophic subaortic stenosis (IHSS), digoxin should only be used in severe car-diac failure in this setting. Patients with chronic constrictive pericardia may libri to digoxin. Slowing of the heart rate by digoxin in some patients may further decrease cardiac output. Patients with heart lailure from amyloid heart disease or constrictive cardiomyopathies respond poorly to digoxin. (See DRUG INTERACTIONS section.)

Laboratory Tests: Serum electrolytes and renal function should be assessed periodically

Laboratory Tests: Serum electrolytes and renal function should be assessed periodically. Drug Interactions: Polassium-depleting conticosteroids and diuratics may be major contributing factors to digitalis toxicity. Calcium, particularly if administered rapidly by the intravenous route, may produce seri-ous arrhythmias in digitalized patients. Quinidine, verapamil, amiodarone, and propatenone cause a rise in serum digoxin concentration, with the implication that digitalis intoxication may result. Certain antibiotics increase digoxin absorption in patients who inactivate digoxin by bacterial metabolism in the lower intes-tine, so that digitalis intoxication may result. Propantheline and diphenoxylate, by decreasing gut mobility, may increase digoxin absorption. Antacids, kaolin-pectin, sultasalazine, neomycin, cholestyramine, certain anticancer drugs and mecologramide may reduce intestinal digoxin absorption, resulting in unexpected-ly low serum concentrations. There have been inconsistent reports regarding the effects of other drugs on the serum digoxin concentration. Thyroid administration to a digitalized, hypothyroid patient may increase

the dose requirement of digoxin. Concomitant use of digoxin and sympathomimetics increases the risk of cardiac arrhythmias because both enhance ectopic pacemaker activity. Succinvichaline may cause a sud-den extrusion of potassium from muscle cells, and may thereby cause arrhythmias in digitalized patients. Although 8 adrenergic blockers or calcium channel blockers and digoxin may be useful in combination to control atrial fibrillation, their additive effects on AV node conduction can result in complete heart block. Carcinogenesis. No long-term animal studies have been performed to evaluate carcinogenic potential

(digoxin) Tablets ¹²⁵ µg (0.125 mg) ²⁵⁰ µg (0.25 mg) ⁵⁰⁰ µg (0.5 mg)

EFFECTIVE THERAPY... WITH OR WITHOUT

AN ACE INHIBITOR

Pregnancy: Pregnancy Category C. Animal sources have been been been conducted with digoxin. Digoxin should only be given to a pregnant woman if clearly needed. Nursing Mothers: Studies have shown that the digoxin concentration in the mother's milk is far below the usual infant maintenance does and should have no pharmacologic effect upon the infant. Nevertheless, cau-tion should be exercised when digoxin is administered to a nursing woman.

ADVERSE REACTIONS: The overall incidence of adverse reactions has been reported as 5 to 20%, with 15 to 20% (1 to 4% of all patients) of them being considered serious. Evidence suggests that the incidence of toxicity has decreased since the introduction of the serum digoxin assay and improved standardization of digoxin tablets. Cardiac toxicity accounts for about one-half, gastrointestinal disturbances for about one-fourth, and CNS and other toxicity for about one-fourth of these adverse reactions.

Adults: Cardiac-unitocal or multiform VPCs; ventricular tachycardia, AV dissociation, accelerated junctional (nodal) rhythm and atrial tachycardia with block; excessive slowing of the pulse. AV block (Wenckebach) of increasing degree may proceed to complete heart block. **Gastrointestinal:** anorexia, nausea, vomiting, occasionally diarrhea, and very rarely hemorrhagic necro-sis of the intestines and abdominal pain.

CNS: visual disturbances, headache, weakness, dizziness, apathy and psychosis Other: gynecomastia.

In early CHF.

LANOX

Infants and Children: Anorexia, nausea, vomiting, diarrhea and CNS disturbances may be present but are rare as initial symptoms in infants. Cardiac arrhythmias are more reliable signs of toxicity. Digoxin in chil-dren may produce any arrhythmia. Most common are conduction disturbances or SVTs, such as atrial tachy-cardia with or without block, and junctional (nodal) tachycardia. Ventricular arrhythmias are less common. Sinus bradycardia may also be a sign of impending digoxin toxicity, especially in infants, even in the absence of first degree heart block. September 1991 542253

PLEASE CONSULT FULL PRODUCT INFORMATION BEFORE PRESCRIBING

References: 1. Packer M, Gheorghiade M, Young JB, et al. Randomized, double-Abstract. 2: Young JB, Uretsky BF, Shahidi FE, Yellen LG, Harrison MC, Jolly MK. Multicenter, double-blind, placebo-controlled in motion of the formation of th



Burroughs Wellcome Co. Research Triangle Park, NC 27709

Copr. © 1992 Burroughs Wellcome Co. All rights reserved. LN-Y04156

Brief Summary of Prescribing Inform rmation as of January 1992 NICODERM®

(nicotine transdermal system)

Systemic delivery of 21, 14, or 7 mg/day over 24 hours

Caution: Federal law prohibits dispensing without prescription.

DESCRIPTION

DESCRIPTION NICODERM is a transdermal system that provides systemic delivery of nicotine for 24 hours following its application to intact skin. The NICODERM system is a multilayered rectangular film containing nicotine as the active agent. For the three does the composition per unit area is identical. Proceeding from the visible surface toward the surface attached to the skin are (1) an occlusive backing (polyethylene/aluminum/polyester/ethylene-vinj) acetate coopymer; (2) a drug reservoir containing nicotine (in an ethylene-viny) acetate coopbymer; (2) a drug reservoir containing nicotine (in an ethylene-viny) acetate coopbymer; (2) a pro-tective liner that covers the adhesive and polysobutylene adhesive; and (5) a pro-tective liner that covers the adhesive layer and must be removed before application to the skin

INDICATIONS AND USAGE

INDIGATIONS AND CONSC. INCODERM treatment is indicated as an aid to smoking cessation for the relief of nicotine withdrawai symptoms. NICODERM treatment should be used as part of a comprehensive behavioral smoking-cessation program. The use of NICODERM systems for longer than 3 months has not been studied.

CONTRAINDICATIONS

Use of NICOERM systems is contraindicated in patients with hypersensitivity or allergy to nicotine or to any of the components of the therapeutic system.

To inclute on to any other components of the component of the componen

Sation of smoking without mounter upprocession. Prapagancy Warning Tobacco smoke, which has been shown to be harmful to the fetus, contains nicotine, hydrogen cyanide, and carbon monoxide. Nicotine has been shown in animal studies to cause fetal harm. It is therefore presumed that NiCODERM systems can cause fetal harm when administered to a pregnant woman. The effect of nicotine delivery by NiCODERM systems has not been examined in pregnancy (see PRECAUTIONS).

Therefore pregnant smokars should be encouraged to attempt cossation using educa-tional and behavioral interventions before using pharmacological approaches. If NICODERM systems are used during pregnancy, or if the patient becomes pregnant while using MICODERM systems, the patient should be apprised of the potential hazard to the fetus.

Safety Hole Concerning Children The amounts of nicotine that are tolerated by adult smokers can produce symptoms of poisoning and could prove fatal if the NICODERM system is applied or ingested by children or pets. Used 21 mg/day systems contain about 73% (83 mg) of their initial drug content. Therefore, patients should be cautioned to keep both the used and unused NICODERM systems out of the reach of children and pets.

NICODERM systems out of the reach of children and pets. PRECAUTIONS The patient should be urged to stop smoking completely when initiating NICODERM therapy (see DOSAGE ANU ADMINISTRATION). Patients should be informed that if they continue to smoke while using NICODERM systems, they may reperience adverse effects due to peak incline levels higher than those experienced from smoking alone. If there is a clinically significant increase in cardiovascular or other effects attributable to nicotine, the NICODERM dose should anticipate that concomitant medications may need dosage adjustment (see Drug Interactions). The use of NICODERM systems beyond 3 months by patients who stop smoking should be discouraged, because the chronic consumption of nicotine by any route can be harmful and addicting.

harmful and addicting. Aligraic Reactions In a 5-week, open-label, dermal irritation and sensitization study of NICODERM systems, 7 of 230 palients exhibited mitinte explanma at 24 hours after application. Upon rechai-lenge, 4 patients exhibited mitinto moderate contact allengy Patients with ordinate censiti-zation should be cautioned that a serious reaction could occur from exposure to other nicotine-containing products or smoking. In the efficacy trials, explament a following system removal was typically seen in about 14% of patients. Some edema in 3%, and dropouts due to skin reactions occurred in 2% of patients. Patients should be instructed to promptly discontinue the use of NICODERM systems and contact their physicians, if they experience severe or persistent local skin reactions (eg, severe erythema, pruritus, or edema) at the site of application or a generalized skin reaction (eg, uricaria, lives, or generalized tash). Patients using NICODERM therapy concurrently with other transfermal products may exhibit local reactions at both application tistes. Reactions were seen in 2 of 7 patients using concomitant Estraterm® (estradiol transfermal system) in clinical triats. In such patients, use of one oth systems may have to be discontinued. **Skin Disease**

Stin Disease Stin Disease NICODERM systems are usually well tolerated by patients with normal skin, but may be irritating for patients with some skin disorders (atopic or eczematous dermatitis).

Irritating for patients with some skin disorders (atopic or eczematous dermalitis). Cardiovascular or Paripheral Vascular Diseases The risks of notoline replacement in patients with certain cardiovascular and peripheral vascular diseases should be weighed against the benefits of including nicotine replacement in a smoking-cessation program for them. Specifically, patients with coronary heart disease (history of myocardial infarction and/or angina pectoris), serious cardiac arrhythmias, or vasospastic diseases (Buerger's disease, Prinzmetal's variant angina) should be carefully screened and evaluated before nicotine replacement is pre-scribed.

angina) should be carefully screened and evaluated before nicotine replacement is pre-scribed. Tachycardia occurring in association with the use of NICODERM therapy was reported occasionally. If serious cardiovascular symptoms occur with the use of NICODERM therapy, it should be discontinued. NICODERM therapy was as well tolerated as placebo in a controlled trial in galants with coronary antery disease (see CLINICAL STUDIES). One patient on NICODERM 2 timg/day, two on NICODERM 14 mg/day, and eight on placebo discontinued treatment due to adverse events. NICODERM therapy did not affect angina frequency or the appearance of arrhythmias on Holter moniforing in these patients. NICODERM therapy energity should not be used in patients during the immediate post-myccardial infaction period, patients with serious arrhythmias, and patients with severe or worsening angina pactoris. **Read or Apeatic impatificancy** tablents with an induction the scherisvely metabolized and that its total system clearance is dependent on liver blood flow, some influence of hepatic impairment would be expected to affect the clearance of nicotine or its metabolites from the circuitation (see Pharmacokinetics). **Endecing Literate**

Inconstantial (see in machine loss): Endernin Disease NICODEFAM therapy should be used with caution in patients with hyperthyroidism, pheochromocytoma, or insulin-dependent diabetes, since nicotine causes the release of catecholamines by the adrenal medula.

Partic View Disease Nicotine delays healing in peptic ulcer disease, therefore, NICODERM therapy should be used with caution in patients with active peptic ulcers and only when the benefits of Including nicotine replacement in a smoking-cessation program outweigh the risks.

Accelerated Hyperfection Nicotine therapy constitutes a risk factor for development of malignant hyperfension in patients with accelerated hyperfension; therefore, NICODERM therapy should be used

with caution in these patients and only when the benefits of including nicotine replacement in a smoking-cessation program outwelgh the risks.

(Ppicement in a bindwing cossainty program outward, into the second of t

Drug Interactions

Smoking cessation, with or without nicotine replacement, may after the pharmacokinetics of certain concomitant medications.

May Require a Decrease in Dose at Cessation of Smoking	Possible Mechanism
acetaminophen, caffeine, imipramine, oxazepam, pentazocine, propranolol, theophylline	Deinduction of hepatic enzymes on smoking cessation.
insulin	Increase in subcutaneous insulin absorption with smoking cessation.
adrenergic antagonists (eg, prazosin, labetalol)	Decrease in circulating catecholamines with smoking cessation.
May Require an Increase in Dose at Cessation of Smoking	Possible Mechanism
adrenergic agonists (eg, isoproterenol, phenylephrine)	Decrease in circulating catecholamines with smoking cessation.

Carcinogenesis. Mulacenesis. Impairment of Farility Nicotine Itself does not appear to be a carcinogen in laboratory animals. However, nicotine and its metabolites increased the incidences of tumors in the check pouches of hamstors and forestomach of 1544 rais, respectively, when given in combination with tumor initiators. One study, which could not be replicated, suggested that cofinine, the primary metabolite of nicotine, may cause lymphoreticular sarcoma in the large intestine in rais. Nicotine and cotinine were not mutagenic in the Amas Salmonelit test. Nicotine induced repairable DNA damage in an *E. coli* test system. Nicotine was shown to be genotoxic in a test system using Chinese hamster ovary cells. In rats and rabbits, implantation can be delayed or inhibited by a reduction in DNA synthesis that appears to be caused by nicotine. Studies have shown a decrease in litter size in rats treated with nicotine during gestation.

Pregnancy

Pregnancy Category D (see WARNINGS). The harmful effects of cigarette smoking on maternal and fetal health are clearly estab-lished. These include low brith weight, increased risk of spontaneous abortion, and increased perinatal mortality. The specific effects of NICODERM therapy on fetal devel-opment are unknown. Therefore pregnant smokers should be encouraged to attempt ces-sation using educational and behavioral interventions before using pharmacological approaches. approaches

approaches. Spontaneous abortion during nicotine replacement therapy has been reported; as with smoking, nicotine as a contributing factor cannot be excluded. NICODERM therapy should be used during pregnancy only if the likelihood of smoking cessation justifies the potential risk of use of nicotine replacement by the patient who may continue to smoke. Text Insertief.

Indy commute to stricke. **Trainogenicity: Animal Studies:** Nicotine was shown to produce skeletal abnormalities in the offspring of mice when given doses toxic to the dams (25 mg/kg IP or SC). **Homan Studies:** Nicotine teratogenicity has not been studied in humans except as a component of cigarette smoke each cigarette smoked delivers about 1 mg of incidine). It has not been possible to conclude whether cigarette smoking is teratogenic to humans. *Charter Harder*

It has not been possible to conclude whether cigarette smoking is teratogenic to humans. <u>Other Effect</u> Animal Studies: A nicoline bolus (up to 2 mg/kg) to pregnant rhesus monkeys caused acidosis, hypercarbia, and hypotension (fetal and maternal concentrations were about 20 times those achieved after smoking 1 cigarette in 5 minutes). Fetal breathing movements were reduced in the fetal iamb after intravenous injection of 0.25 mg/kg nicotine to the were (squivalent to smoking 1 cigarette every 20 seconds for 5 minutes). User the bold flow was reduced about 30% after influsion of 0.1 mg/kg/min micotine for 20 minutes to pregnant rhesus monkeys (equivalent to smoking about 6 cigarettes every minute for 20 minutes).

minutes). Hwman Experience: Cigarette smoking during pregnancy is associated with an increased risk of spontaneous abortion, low birth weight infants, and perinatal mortality. Nicotine and carbon monoxide are considered the most likely mediators of these outcomes. The effect of cigarette smoking on tetal cardiovascular parameters has been studied near term. Cigarettes increased tetal acritic blood flow and heart rate and decreased uterine blood flow and tetal breathing movements. NICODERM therapy has not been studied in pregnant humans.

pregrant humans. Laber and Delivery: Laber and Delivery: The NYCODERM therapy site is not recommended to be left on during labor and delivery. The effects of nicotine on a mother or the fetus during labor are unknown. Jies in Nuring Mabhers: Caution should be exercised when NICODERM therapy is administered to nursing women. The safety of NICODERM therapy in nursing infants has not been examined. Nicotine passes freely into breast milk; the milk to plasma ratio overrages 2.9. Nicotine is absorbed orally. An infant has the ability to clear nicotine by hepatic first-pass clearance; however, the efficiency of removal is probably towest at birth. The nicotine concentra-tions in milk can be expected to be lower with NICODERM therapy, when used as generally reduced with nicotine replacement. The risk of exposure of the infant o nicotine from NICODERM therapy should be weighed against the risks associated with the infant's exposure to nicotine from continued smoking by the mother (passive smoke exposure and contamination of breast milk with other components of tobacco smoke) and from NICODERM therapy alone or in combination with continued smoking. **Pediatic Use**

Productic Lise NICODERM therapy is not recommanded for use in children, because the safety and effectiveness of NICODERM therapy in children and adolescents who smoke have not been evaluated.

Gerlatric Use

Hitting was a set of the age of 60 participated in clinical trials of NICODERM therapy. NICODERM therapy appeared to be as effective in this age group as in younger smokers. However, asthenda, various body aches, and dizziness occurred slightly more often in patients oval 60 years of age.

ADVERSE REACTIONS

ADVERSE REACTIONS Assessment of adverse events in the 1.131 patients who participated in controlled clinical trials is complicated by the occurrence of Gi and CNS effects of nicotine withdrawal as well as nicotine excess. The actual incidences of both are confounded by concurrent smoking by many of the patients. When reporting adverse events during the trials, the investigators did not attempt to identify the cause of the symptom.

investigators did not attempt to identify the cause of the symptom. **Jopical Adverse Events** The most common adverse event associated with topical nicotine is a short-lived ery-thema, pruritus, and/or burning at the application site, which was seen at least once in 47% of patients on the NICODERM system in the clinical trials. Local erythema after system removal was noted at least once in 14% of patients and local edema in 3%. Erythema generally resolved within 24 hours. Cutaneous hypersensitivity (contact sensi-tization) occurred in 2% of patients on NICODERM system (see PRECAUTIONS, Allergic Reactions).

Probably Causally Related The following adverse events were reported more frequently in NICODERM-treated patients than in placebo-treated patients or exhibited a dose response in clinical trials. Digestive System: Diarnees: Dry mouth Mesculoschedial System: Artradigat, mysigia* Nerrous System: Abnormal dreams*, insomnia (23%), nervousness* Skin and Appendages: Sweating! Frequencies for 21 mg/day system * Reported in 3% to 9% of patients † Reported in 1% to 3% of patients Unmarked If reported in <1% of patients

Unmarked if reported in c1% of patients **Causal Belaidonble UNKNOWN** Adverse events reported in NICODERM- and placebo-treated patients at about the same frequency in clinical italis are listed below. The clinical significance of the association between NICODERM systems and these events is unknown, but they are reported as alerting information for the clinician. **Body as a Whole:** Asthenia's, back pain', chest pain', pain' **Digestive System:** Adominal pain', constipation', nausea', vomiting the **Revous System:** Dizzines', headache (25%), paresthesia' **Respiratory System:** Cough increased', pharyngitis', sinusitist Stin and Appendages: Tash' Special Sense: Tasto parversion' **Urogenial System:** Diz mores', reatment

Frequencies for 21 mg/day systems *Reported in 3% to 9% of patients tReported in 1% to 3% of patients Unmarked if reported in <1% of patients DRUG ABUSE AND DEPENDENCE/TREATMENT OF OVERDOSE For further information, please see Full Prescribing Information

Manufactured by ALZA Corporation Palo Alto, CA 94304 for Marion Merrell Dow Inc. Kansas City, MO 64114

Prescribing information as of January 1992

nidb0192a



For Patients Hit By Cold And Flu

- Unsurpassed efficacy for mildto-moderate aches and pains vs aspirin' and OTC ibuprofen
- Milligram for milligram, as effective as aspirin for fever²



- Superior GI safety profile to aspirin and even OTC ibuprofen
- Effective in reducing local symptoms, such as arm soreness, associated with influenza vaccine³

1000 mg, The most effective dose of TYLENOL®

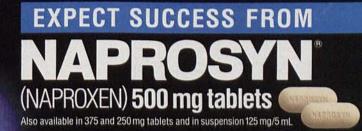
References: 1. Mehlisch DR et al. *Clin Ther.* 1984;7:89-97. 2. Aspirin or paracetamol? *Lancet.* 1981;II:287-289. 3. Yassi A et al. *Clin Invest Med.* 1991;14(suppl 4):A76. Abstract. MCNEIL Division of McNeil-PPC, Inc. @McN-PPC, Inc '92 Fort Washington, PA 19034 U.S.A. Do not exceed eight Gelcaps per 24-hour period. Acetaminophen in large overdoses can cause serious adverse effects. In the event of accidental overdose, contact a poison control center immediately.

FOR CHRONIC ARTHRITIS EXPECT A FAVORABLE SAFETY PROFILE

Color-enhanced 3-D CT image of normal stomach. Supplied by David W. Stoller, MD, of California Advanced Imaging.

> 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.





© 1992 Syntex Puerto Rico, Inc. NP93015

What do these ittle 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.

which helps support to Arthritis Today, th	nembership in the Arthritis Foundation, research and includes a year's subscriptior he official magazine of the Foundation. bership contribution of \$20 or more.
Address	
City	State Zip
MAIL TO: Arthriti P.O. Box	TX 75287-0277
☐ For instant memb	ership, call toll-free 1-800-933-0032.

WHY Thouse in the second secon *Incidence of reported reaction 3%-9%. The SYNTEX U.S. patent nos. 3,904,682, 3,998,966 and others ©1991 Syntex Puerto Rico, Inc. Rev. 39

NAPROSYN (NAPROXEN) 500 mg tablets

Rev. 39 September 1990

Lilly Research Laboratories introduces a new oral antibiotic class THE FIRST CARBACEPHEM

A STEP BEYOND ...



FIRSTINA POTENT NEW CLASS

A new carbacephem. Combination of benefits.

- Efficacy
- Excellent pharmacokinetic profile
- Safety/tolerance
- B.I.D. DOSING CONVENIENCE

Available in 200-mg Pulvules®

A broad range of clinical indications

Consistent clinical efficacy¹ at the end of treatment in the mild to moderate adult infections you see most often



N=) 62% cured 365) 33% improved



acute bronchitis Due to S. pneumoniae, H. influenzae (including β-lactama:

Secondary bacterial infection of

Due to S. pneumoniae, H. influenzae (including β -lactamase-producing strains), and M. catarrhalis (including β -lactamase-producing strains).

Acute bacterial exacerbations of

chronic bronchitis

Due to S. pneumoniae, H. influenzae (including β -lactamase-producing strains), and M. catarrhalis (including β -lactamase-producing strains).

N=) 54% cured 203) 39% improved



β Pneumonia Due to S. pneumoniae and H. influenzae (non-β-lactamase-producing strains only).

N=) 65% cured 83) 31% improved

Acute maxillary sinusitis

7%

N=) 65% cured 92) 32% improved

97% N=) 85% cured 12% improved Due to S. pneumoniae, H. influenzae (non- β -lactamase-producing strains only), and M. catarrhalis (including β -lactamase-producing strains). Note: In a patient population with significant numbers of β -lactamase-producing organisms, loracarbef's clinical cure and bacteriological eradication rates were somewhat less than those observed with a product containing a β lactamase inhibitor. Lorabid's decreased potential for toxicity compared to products containing β -lactamase inhibitors along with the susceptibility patterns of the common microbes in a given geographic area should be taken into account when considering the use of an antimicrobial. **Pharyngitis/tonsillitis**

Due to S. pyogenes. Note: The usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever, is penicillin administered by the intramuscular route. Lorabid is generally effective in the eradication of S. pyogenes from the nasopharynx; however, data establishing the efficacy of Lorabid in the subsequent prevention of rheumatic fever are not available at present.

Uncomplicated pyelonephritis

Due to E. coli.

N= 68 87% cured 7% improved

0

900% N=) 84% cured 201) 6% improved

Uncomplicated urinary tract infections

Due to *E. coli* and *S. saprophyticus. Note:* In considering the use of Lorabid in the treatment of cystitis, Lorabid's lower bacterial eradication rates and lower potential for toxicity should be weighed against the increased eradication rates and increased potential for toxicity demonstrated by some other classes of approved agents.



67% cured

Uncomplicated skin and skin structure infections

Due to S. aureus (including penicillinase-producing strains) and S. pyogenes.

Coming soon in a suspension

137 26% improved See brief summary of prescribing information on adjacent page





Reference

1. Data on file, Lilly Research Laboratories.

Lorabid "

200-mg Pulvules®

Brief Summary. Consult the package insert for complete prescribing information.

Indications and Usage: Lorabid is a synthetic β -lactam antibiotic of the carbacephem class for oral administration. Lorabid is indicated in the following mild to moderate infections caused by susceptible strains of designed determined microconscience. designated microorganisms.

Control of the second s

present.) Uncomplicated Skin and Skin Structure Infections caused by Staphylococcus aureus (including penicillinase-producing strains) or S. progenes. Abscesses should be surgically drained as clinically indicated. Uncomplicated Urinary Tract Infections (cysitiis) caused by Escherichia coll or Staphylococcus saprophylicus*. NOTE: In considering the use of Lorabid in the treatment of cystitis, Lorabid's lower bacterial eradication rates and lower potential for toxicity should be weighed against the increased eradication rates and increased potential for toxicity demonstrated by some other classes of approved agents (see Clinical Studies section).

Studies section). Uncomplicated Pyelonephrilis caused by E. coll. *Although treatment of infections due to this organism in this organ system demonstrated a clinically acceptable overall outcome, efficacy was studied in fewer than 10 infections.

Contraindication: known allergy to loracarbef or cephalosporin-class antibiotics

Warnings: Because cross-hypersensitivity can occur among β -lactams, Lorabid should be given cautiously to penicillin-sensitive patients and discontinued if an allergic reaction occurs. Pseudomembranous colitis has been reported with nearly all antibacterial agents and should be considered in differential diagnosis of antibiotic-associated diarrhea.

Precautions: Lorabid may be administered to patients with impaired renal function. Total daily dosage should be reduced in patients with known or suspected renal impairment because of the possibility of high and/or prolonged plasma concentrations. Loracarbet should be given cautiously to patients receiving-diuretics con-currently.

CUITE Prolor

currently. Prolonged use may result in overgrowth of nonsusceptible organisms. Loracarbef should be given cautiously to patients with a history of colitis. Renal excretion of *B*-lactams is inhibited by probenecid and resulted in about an 80% increase in the AUC for locarabef. Safety and effectiveness have not been determined in pregnancy, lactation, and infants under 6 months of age. Caution should be exercised in prescribing Lorabid for these patients. In geniatic patients who received the usual recommended adult doese in

In geniaric patients. In geniaric patients who received the usual recommended adult doses in clinical studies, efficacy and safety were comparable to results in nongeniatric

adult patients.

Lorabid** (loracarbef)

Adverse Reactions: Most adverse reactions in clinical trials were mild and transient. Only 1.5% of patients discontinued because of drug-related reactions, the most common of which were diarrhea, abdominal pain, and skin rashes

All Patients The incident herwise note ce of the following adverse events was less than 1%, except as Gastrointestinal: Diarrhea, 4.1%; nausea, 1.9%; vomiting, 1.4%;

abdominal pain. odominal pain, 1.4%; and anorexia. Hypersensitivity: Skin rashes (1.2%), urticaria, pruritus, and erythema

mult Central Nervous System: Headache (2.9%), somnolence, nervousness,

isomnia, and dizziness. Hemic and Lymphatic Systems: Transient thrombocytopenia, leukopenia,

and eosinophilia Hepatic: Transient elevations in SGPT, SGOT, and alkaline phosphatase.

Renal: Transient elevations in BUR 1, octor, and analysis Renal: Transient elevations in BUR and creatinine. Cardiovascular System: Vasodilatation. Genitorinary: Vaginitis (1.3%), vaginal moniliasis (1.1%).

Genitourinary: Vaginitis (1.3%), vaginal moniliasis (1.1%). Pediatric Patients The incidences of several adverse events were significantly different in the pediatric population versus the adult population respectively as follows: Diarrhea (5.8% vs. 0.3%), nausea (0.0% vs. 2.5%); vomiting (3.3% vs. 0.5%); anorexia (2.3% vs. 0.3%), headache (0.9% vs. 3.2%); somolence (2.1% vs 0.4%); minitis (6.3% vs. 1.6%); rash (2.9% vs. 0.7%).

0.4%); rhinitis (6.3% vs 1.6%); rash (2.9% vs 0.7%). <u>B-Lactam Antimicrobial Class Labelinin</u>: Although not observed in Lorabid clinical trials, the following have been reported in patients treated with β-lactam antibiotics: Adverse Reactions, Anaphylaxis, Stevens-Johnson syndrome, serum-sickness-like reactions, aplastic anemia, hemolytic anemia, hemorrhage, agranulocytosis, toxic epidermal necrolysis, renal dysfunction, toxic nephropathy, and hepatic dysfunction, including cholestasis, and seizures. Altered Laboratory Tests-Increased prothrombin time, positive direct Coombs' test, elevated LDH, pancytopenia, and neutropenia.

Overdosage: Hemodialysis has been shown to be effective in hastening the elimination of loracarbet from plasma in patients with chronic renal failure.

Dosage and Administration: Lorabid is administered orally either at least 1 hour prior to eating or at least 2 hours after eating.

Population/Infection	Dosage (mg)	Duration (days)
Adults (≥13 years)		and the second
Secondary Bacterial Infection of Acute Bronchitis	200-400 q 12h	7
Acute Bacterial Exacerbation of Chronic Bronchitis	400 q12h	7
Pneumonia	400 q12h	14
Pharyngitis/Tonsillitis	200 q12h	10
Sinusitis (See Clinical Studies and Indi information.)	400 q12h ications and Usage fo	10 r further
Uncomplicated Skin and Skin Structure Infections	200 q12h	7
Uncomplicated cystitis (See Clinical Studies and Indi information.)	200 q24h cations and Usage fo	7 r further
Uncomplicated pyelonephritis	400 q12h	14
Infants and Children (6 mos to 2	(rs)	
Acute Otitis Media*	30 mg/kg/day q12h (divided doses)	10
(See Clinical Studies and Indi information.)	cations and Usage for	rfurther
Pharyngitis/Tonsillitis	15 mg/kg/day q12h (divided doses)	10
Impetigo	15 mg/kg/day q12h (divided doses)	7

Clinical studies of otitis media were conducted with the suspension formulation only. Therefore, the capsule should not be substituted for the suspension in the treatment of otitis media.

Lorabid ** (loracarbef)

Clinical Studies: Loracarbel (L) vs β-Lactamase Inhibitor (C) in Acute Otitis Media (US) Efficacy: A study of acute otilis media performed in a population with a significant incidence of β-lactamase-producing organisms compared loracarbel with a β-lactamase inhibitor. Using very strict evaluability and microbiologic/clinical response criteria at the 10- to 16-day postherapy follow-up, the following presumptive bacterial eradication/clinical cure outcomes (success rates) were obtained: Bethoore % Due to Pathooen (N=204) Success Rate

Pathogen	% Due to Pathogen (N = 204)	Success Rate
S. pneumoniae	42.6%	L equivalent to C
H. influenzae	30.4%	L 9% less than C
M. catarrhalis	20.6%	L 19% less than C
S. pyogenes	6.4%	L equivalent to C
Overal	100.0%	1 12% less than C

Safety: The incidences of the most common adverse events were clinically and statistically significantly higher in the control group versus the loracarbe

Event	Loracarbef	Control
Diarrhea	15%	26%
Rash*	8%	15%

*Primarily in the diaper area in young children.

Loracarbel (L) vs Amoxicillin (A) in Acute Otitis Media (Europe) Loracarbel (L) vs Amoxicillin (A) in Acute Ottilis Media (Europe) Efficacy: A study of acute ottilis media performed in a population with a lower incidence of A-lactamase-producing organisms than that usually seen in US trials compared loracarbef to amoxicillin. Using very strict evaluability and microbiologic/elinical response criteria at the 10- to 16-day posttherapy follow-up, the following presumptive bacterial eradication/clinical cure outcomes (success rates) were obtained:

Pathogen	% Due to Pathogen (N = 291)	Success Rate
S. pneumoniae	51.5%	L equivalent to A
H. influenzae	29.2%	L 14% greater than A
M. catarrhalis	15.8%	L 31% greater than A
S. pyogenes	3.4%	L equivalent to A
Overall	100.0%	L equivalent to A

Loracarbel (L) vs Doxycycline (D) in Acute Maxillary Sinusitis (Europe) Efficacy: A study of acute maxillary sinusitis performed in a population with a lower incidence of β-lactamase-producing organisms than that usually seen in US trials compared ioracarbet with doxycycline. Using very stricl evaluability (sinus-puncture) criteria and microbiologic/clinical response criteria at he 1- to 2-week posttherapy follow-up, the following presumptive bacterial eradication/clinical cure outcomes (success rates) were obtained: Pathogen % Due to Pathogen (N = 210) Success Rate

ratnogen	70 Due to Pathogen (N = 210)	Success Hale
S. pneumoniae	47.6%	L equivalent to D
H. influenzae	41.4%	Lequivalent to D
M. catarrhalis	11.0%	L equivalent to D
Overall	100.0%	L equivalent to D

Loracarbel (L) vs Cefacior (C) in Uncomplicated Cystilis Study (US) *Efficacy:* A study of cystilis compared loracarbel with cefacior. Using very strict evaluability criteria and microbiologic/clinical response criteria at the 5 to 9-day posttherapy follow-up, the following bacterial eradication rates were obtained: Pathorem

Pathogen	% Due to Pathogen (N = 186)	Eradication Rate
E. coli	77.4%	L 4% greater than C
Other major Enterobacteriaceae	12.5%	(L = 80%) L equivalent to C
S. saprophyticus	3.8%	(L = 61%) L equivalent to C

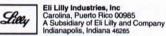
Loracarbel (L) vs Quinolone (Q) in Uncomplicated Cystillis (Europe) Efficacy: A study of cystilis compared loracarbel with an oral quinolone Criteria at the 5- to 9-day posttherapy follow-up, the following bacterial eradication rates were obtained:

Pathogen	% Due to Pathogen (N = 189)	Eradication Rate
E. coli	82.0%	L 7% less than Q
Other major Enterobacteriaceae	10.1%	(L = 81%) L 32% less than 0 (L = 50%)

PV 2731 AMP

Additional information available to the profession on request from Eli Lilly and Company, Indianapolis, Indiana 46285.

[032592]



Lorabid ** (loracarbef)

Order Archives of Family Medicine today! ARCHIVES FAMILY MEDICINE MARJORIE A. BOWMAN, MD, MPA, EDITOR Joseph Konen, MD, MSPH, Deputy PRACTICE MANAGEMENT Christian Ramary, MD, Series Editor PREVENTION AND HEALTH PROMOTION Robert C. Rinaldi, PhD, Series Editor SCIENCE AND TECHNOLOGY Jend Loth, PhD, Series Editor MEDICINE AND ETHICS Katherine Krause, MD, Series Editor BOOK AND SOFTWARE REVIEWS Adies, MD American Medical Association Call 1(800) AMA-2350 or return this postage paid reply card. No Postage Necessary If Mailed In The United States **Business Reply Mail** First Class Mail Permit No. 1376 Chicago, Il Postage will be paid by addressee Subscription Department American Medical Association 515 North State Street

hlulluulluullluulduluhlluuddulu

Chicago, Il 60610-9802

Unique dual mechanism of action

Controls hypertension through a combination of mild diuresis and vasodilatation^{1,2}

Gradually reduces both systolic and diastolic blood pressures3,4

Well-tolerated hypertension control

Low patient dropout rate due to favorable side-effect profile and convenient once-daily dosing5

Does not adversely affect lipids⁶⁻⁹

kindhearted ONCE A DAY 5mg TABLETS

Please see brief summary of prescribing information below.

LOZOL® (indapamide) 2.5 mg tablets BRIEF SUMMARY

INDICATIONS AND USAGE: LOZOL (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: Anuria, hypersensitivity to indepamide or other sulfonamidederived drugs

WARHINGS: Infrequent cases of severe hyponatremia, accompanied by hypokalemia, have been reported with the use of recommended doses of indapamide primarily in ederly females. Symptoms were reversed by electrolyte replensionment (see PHECAUTIONS). Hypokalemia occurs commonly with duretics (see ADVERSE REACTORS, hypokalemia), and electrolyte monitoring is essential. In general, diuretics should not be given with lithium.

should not be given with lithium. PRECAUTIONS: Perform serum electrolyte determinations at appropriate intervals, specially in patients who are vomiting excessively or receiving parenteral fluids, in patients subject to electrolyte inhalance, or in patients on a sai-restricted diet. In addition, patients should be observed for clinical signs of fluid or electrolyte imbalance, such as hyponatremia, hypochloremic alkalosis, or hypokalemia such as hyponatremia, electrolyte imbalance, such as hyponatremia, hypochloremic alkalosis, or hypokalemia sub-otical duresis, with severe cirrhosis, and natiruresis is increased with larger doses, with brins duresis, with severe cirrhosis, and with concomitant use of corticosteroids or ACHH. Interference with adequate oral intake of electrolytes will also contribute to hypokalemia. Hypokalemia can sensitize or exaggerate the response of the heart to the toxic effects of digitalis, such as increased ventricular irritability. Dilutional hyponateria may occur in domatous patients, apporpriate treatment is treatment of choice. Chonde deficit is usually mid, ont requiring specific treatment except in extraordinary circumstances (iver, rend disease). Hyperunicemia may occur, and frank goot may be precipitated in certain patients receiving indaganide. Serum concentrations of unc acid should be monitored periodically.

Teceving Indapamide. Serum concentrations of une even and the second of the second of

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 thryrod disruthance. Complications of hyperparathyroidis may not been seen. Discontinue before tests of parathyroid function are performed. Thiazdes have exacerbated or activated systemic lupus erythematosus. Consider this possibility with indiacamide. possibility with indapamide

DRUG INTERACTIONS: LOZOL may add to or potentiate the action of other anthypertensive drugs. The anthypertensive effect of the drug may be enhanced in the postsympathectomized patient. Indepartie may decrease arterial responsiveness to norepinephrine, but this does not preclude the use of norepinephrine. In mouse and rai lifetime carcinogenoity studies, there were no significant differences in the incidence of tumors between the indepartie-treated animals and the control mouse groups

Prognancy Category & Diuretics cross the placental barrier and appear in cord blood. Indigamide should be used during pregnancy only if clearly needed. Use may be associated with fetal or neonatal jandice, thrombocytopena, 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 pursion. nursing.

ADVERSE REACTIONS: Most adverse effects have been mid and transient. From Phase II placebo-controlled studies and long-term controlled clinical trais, adverse reactions with © 5% cumulative incidence: headache, dizziness, fatigue, weakness, loss of energy, lethargy, tredness or malaie, muscle cramps or spasm or numberse of the externilies, nervourness, tersion, anxiety, intrability or agitation, < 5% cumulative incidence: lightheadedness, drowsiness, vertigo, insomna, depression, bairred vision, constipation, manaesa, vontinio, darmea, gastre initiation, adominal pain or cramps, anorexia, orthostatic hypotension, permature ventricular contractions, irregular heart beat, palpitations, frequency of unitation, neutration, adominal pain or cramps, anorexia, orthostatic hypotension, permature ventricular contractions, irregular heart beat, palpitations, frequency of unitation, neutration, adominal pyperplycennia, hyponatremia, hypochloremia, intrase in serum BUN or creatine, pyperplycenia, hyponatremia, hypochloremia, intrase in serum BUN or creatine, pyperplycenia, byponatremia, hypochloremia, intrase in serum BUN or creatine, pytocourin, weight loss, dry mount, tinging of extremelles. Hypokalemia with concomiant clinical signs or symptoms occurred in 3% of palents receiving indapamide 25 mg, 72% of palents receiving indapamide 5 mg, and 44% of palents receiving hydrochiorothiazde 50 mg had a laked one potasium value (out of a total of 11 taken during the study) below 35 mtg/L. On the indapamide 25 mg prop, over 50% of those palents returned to normal serum potasium values without intervention. Other adverse reactions reported with antihypertensive/duretics are

intrahepatic cholestatic jaundice, sialadentils, xanthopsia, photosensitivity, purpura, bullous eruptions, Stevens-Johnson syndrome, necrolizing anglitis, lever, respiratory distress (including pneumontils), anaphylactic reactions, agranulocytosis, leukopenia, thrombocytopenia, aplastic anemia.

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

See product circular for full prescribing information. Revised: March 1992 References: 1. Campbell DB: The possible mode of action of indapamide. A review. *Curr Med* Res Opin 1983(8):uppl 3(9-94. 2. Wisson PP, Kem DC: Indapamide. In: Messeri Fi H. et Carcinovascular Ding Therapy. Philadelphia: W.B. Sunders Co. 1990;348-356. 3. Mimman A. Zambrowski JJ, Coppolani T. The antihypertensive action of indapamide. Results of a French multicentier study of 2(14): ambutant patients. Postgrad Med J 1981;57(8)uppl 3(8): 64. Data on file, Rhône-Poulenc Parter Pharmaceuticals in: 5. Abbod C-B: The efficacy and tolerance of indapamide in resemilal hypertension: A multi-centre study in 981 patients. *Curr Med* Res Opin 1985;97(1-494-499. 6. Beiling S, Vukovich PA, Neiss ES, et al. Long-term expension A with indapamide. *Am Heart* 1 1981;51(61); par1 2(2):52-52. 7. Scalation A, Galacom F, Gundo F, et al. Clinical investigation on long-term effects of indapamide in patients with essential hypertension. *Curr Ther Res* 1984;35(11):72. 8. Meyer-Sabelek W, Gotzen R, Heitz J, et al. Semi lipoprotein levies during long-term trautiment of hypertension in A Teo KK: Echocardiographic evaluation of left ter-tricular function in patients showing an antihypertensive and biochemical response to indapamide. *Postgrad Med* J 1981;57(Suppl 2):54-67.

(Pr RHÔNE-POULENC RORER

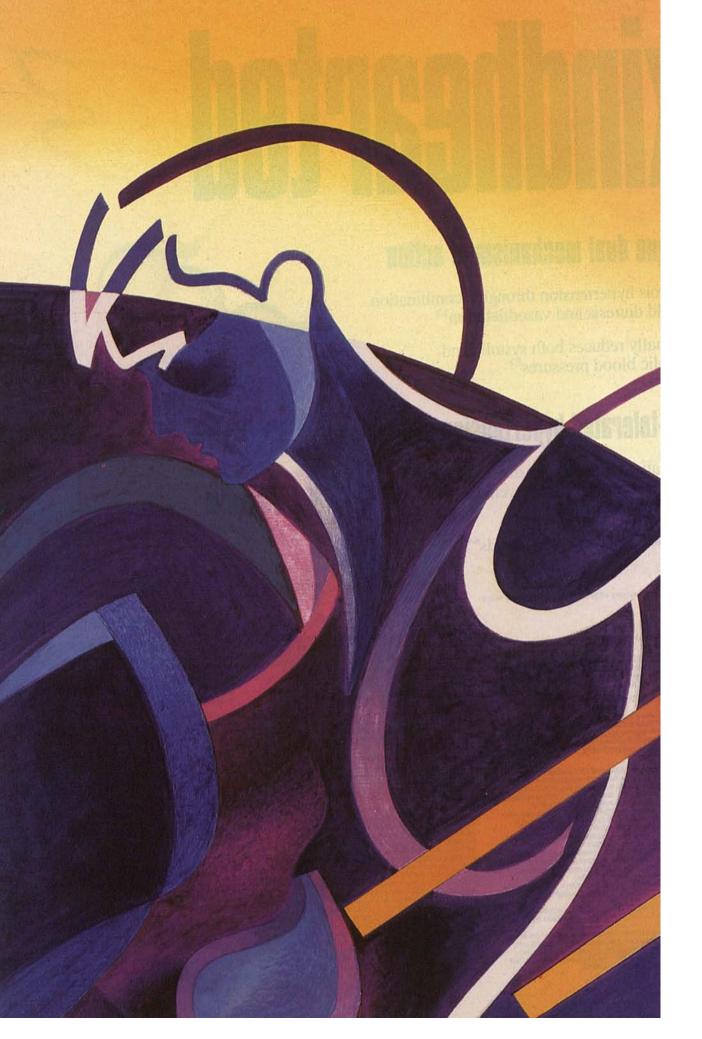
RHONE-POULENC RORER PHARMACEUTICALS IN

Copromoted by





Product of Servier Research Institute ©1992 Rhône-Poulenc Rorer Pharmaceuticals Inc. LZ06792A FC#92-742 7/92 Printed in U.S.A.



Announcing the first of a new NSAID class





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 (14%), dyspepsia (13%) and abdominal pain (12%)

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.

Signature States States

RELAFEN® brand of nabumetone

See complete prescribing information in SmithKline Seecham Pharmaceuticals literature or *PDR*. The fol-lowing is a brief summary.

CLINICAL PHARMACCLOGY: Relaten is a nonsteroidal anti-Inflammatory drug (NSAID) that exhibits anti-inflammatory, analysis 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-taphthylacetic actid (6MNA), a potent inhibitor of prostaglandin synthesis.

INDICATIONS AND USAGE: Acute and chronic treatment of slops 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, urticarla or other allergic-type reactions.

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

WARMINGS: Remain alert for ulceration and bleeding in patients treated chronically, even in the absence of previous G.1, tract 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 ulcers was 0.33% (95% CI: 09%, 05%) at three to six, months, 0.5% (95% CI: 0, 14%, 0.9%) at one year and 0.8% (95% CI: 0.3.9%, 1.3%) at two years. Inform patients of the signs and symptoms of serious C.1. toxicity and what steps to take II they occur. In patients with active peptic ulcer, weigh the benefits of *Relative* 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 G.1. toxicity.

sufficient to offset the potential increased risk of G.I. toxicity. PRECAUTIONS: Because nabumetone undergoes extensive hepatic metabolism, no adjustment of *Relaten* dos-age is generally necessary in patients with renal insufficiency. However, as with all NSAIDs, monitor patients with impaired renal function more closely than patients with normal renal function. Evaluate patients with symptoms and/or signs suggesting liver dysturction, 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., eosinophilia, rash, etc.), discontinue *Relaten*. Use *Relaten* therapy, if has 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 UV. 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 NSAID treatment, particularly when the drugs are used for less erfous conditions where treatment without NSAIDs may represent an acceptable alternative to both the patient and the physician.

ADVERSE REACTIONS) and likely benefits of NSAID treatment, particularly when the drugs are used for less serious conditions where treatment without NSAID may represent an acceptable alternative to both the patient and the physician. Exercise caulton when administering *Relaten* with warfarin since interactions have been seen with other NSAIDs. Exercise caulton 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 oid not show mutagenic potential in the Ames test and mouse micronucleus test in vive. However, nabumetone and 6MNA-treated lymphocytes in culture showed chromosomal aberrations at 80mcGmL and higher concentrations (equal to the average human exposure to *Relaten* at the maximum recommended does). Absumetone did not impair fortlity of mais treated orally doess of 320 mg/kg/day before mating. Pregnancy Category C: Nabumetone did not eauerage human exposure to *Relaten* at the maximum recommended does). There are no adequate, well-controlled studies in pregnant women. Use the drug during pregnancy is not recommended. Because of the known effect of prostaglandin-symtesis-inhibiting drugs on the tuman fetal cardiovascular system (closure of ductus artericoss), use of *Relaten* during the third trimester of pregnancy. Is not recommended. It is not known whether nabumetone or its metabolites are excreted in human milk; however, 6MNA is excreted in the milk of lactaing rats. *Bedaten* of use in substile adverse effects of prostaglandin-synthesis-inhibiting drugs on the tumen fuel cardiovascular system (closure of ductus artericoss), use of *Relaten* during the third trimester of pregnancy. It is not known whether nabumetone or its metabolites are excreted in human milk; however, 6MNA is excreted in the milk of lactaing rats. Because of the possible adverse effects of prostaglandin-synthesis-inhibiting drugs on neonates. *Relaten* is ont recommende

age or older

AUVERSE REACTIONS: Incidence ≥1%-Probably Causally Related—Diarrhea (14%), dyspepsia (13%), abdominal pain (12%), constipation, flatulence, nausea, positive stool gualac, dry mouth, gastritis, sto-matitis, vormiting, diziness, headache, latigue, increased sweating, insomnia, nervousness, somnolence, prutius, rash, tinnitus, edema.

Maltis, volimity, otzenese, inclusion, and and 9%. Reactions occurring in 1% to 3% of the patients are unmarked. 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, cholestatio Jaundice, duodenal ulcer, dysphagia, gastrice ulcer, gastroenteritis, gastrointesinal bleeding, increased appetite, liver function abnormalities, melena, asthenia, agilation, ankiety, confusion, depression, malalse, paresthesia, tremor, vertigo, bullous eruptions, photosensitivity, unticaria, paeudoporphyria cutanea tarda, vasculitis, weight gain, dyspnaa, hyporasnsitivity, pneumonitis, abuminuria, azotemia, intestitial nephritis, abnormal vision, anaphylacido fraeclion, angioneurotic edema.</p>

angioneurotic edema. Incidence - 19%-Causai Relationship Unknown1--Billrubinuria, duodenitis, eructation, galistones, gingiviis, glossitis, pancrealitis, rectai bleeding, niphtmares, acne, alopecia, erythema multilorme, Stevens-Johnson Syndrome, angina, artriythmia, hypertension, myocardici infarction, papilations, syncope, thrombophiebitis, asthma, cough, dysura, hematuria, impotence, renal stones, taste disorder, fever, chilis, anema, leukopenia, granulocytopenia, thrombocytopenia, hypergivenia, hypokalemia, weight loss. fAdverse reactions reported only in worldwide postmarketing experience or in the literature are Italicized.

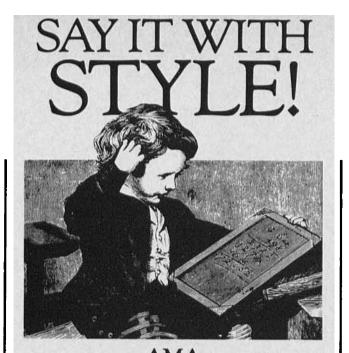
OVERDOSAGE: If acute overdose occurs, empty the stomach by voniting or lavage and institute general sup-portive measures as necessary. Activated charcoal, up to 60 grams, may effectively reduce nabumetione absorp-tion. Coadministration of nabumetone with charcoal up to 60 grams, may effectively reduce nabumetione absorp-tion. 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 for occult blood and there was no fail in serum hemoglobil 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 food. 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 the beam attories the lowest energine boost of church charment. How Supplied: Tableis: Dval-shaped, film-coaled: 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 (S9° 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

BBS-BL13



AMA MANUAL OF STYLE The one to consult

Whether it's a multi-volume work or a short article, you'll find the write stuff in the AMA Manual of Style. This 8th Edition, a major revision, is the standard among medical publishers. All major aspects of manuscript preparation are covered in five sections which outline: • Preparing an article for publication . Style . Terminology . Measurement and Quantitation . Technical Information and Bibliography.

You'll find everything you need to make your article a success including: • Legal and Ethical Matters • Grammar

 Punctuation
 Word Use
 Foreign Words and Phrases Diacritics • Abbreviations • Units of Measure • Numbers and Percentages • Mathematics • Statistics • Production and Printing Terms . Editing and Proofreading Marks Eponyms
 Nomenclature
 Greek Alphabet
 Virus

Names • SI Units and Conversion Tables • Expanded Collection of Graphs and Charts • Bibliography • Resources for On-Line Databases.

Next time you have a question about making your medical writing more clear, concise and accurate, be ready with one simple answer the AMA Manual of Style. Order your copy today!

1988/377 pp/ 4351-X/\$28.95

Want it faster? Call FREE 1-800-638-0672 from anywhere in the U.S.

Yes, send me _ _, copies of AMA Manual of Style (4351-X) at \$28.95 per copy. If not completely satisfied, I may return the book within 30 days at no further obligation (US only).

Payment Options

Save postage and handling charges by enclosing your payment. Check enclosed Bill me VISA MasterCard Am Ex

Card #

Signature/P.O. #

Name

Address

City/State/Zip_

Williams & Wilkins 428 East Preston Street, Baltimore, MD 21202

Exp. Date

In NIDDM, when diet alone fail Glucotrol spells...

Gipizide) 5-mg and 10-mg **Gipizide)** 5-mg and 10-mg Scored Tablets

Please see brief summary of GLUCOTROL[®] (glipizide) prescribing information on next page.

As with all sulfonylureas, hypoglycemia may occur.

The reasons to prescribe Glucotrol can pile up fast

Glucotrol

Brief Summary of Prescribing Information INDICATIONS AND USAGE: GLUCOTROL is indicated as an adjunct to diet for the control of hyperglycemia in patients with non-insulin-dependent diabetes mellitus (NIDDM; type II), after an adequate trial of dietary therapy has

CONTRAINDICATIONS: GLUCOTROL is contraindicated in patients with known hypersensitivity to the drug or with diabetic ketocaidosis, with or without coma, which should be treated with insulin. SPECIAL WARNING ON INCREASED RISK OF CARDIOVASCULAR MORTALITY: The administration of oral

Decide Relocations in an intervention with the state of the second contract of the second c

structure. PRECAUTIONS: Renal and Hepatic Disease: The metabolism and excretion of GLUCOTROL may be slowed in patients with impaired renal and/or hepatic function. Hypoglycemia may be prolonged in such patients should it occur. Hypoglycemia: All sulforylures are capable of producing severe hypoglycemia. Proper patient selection, dosage, and instructions are important to avoid hypoglycemia. Renal or hepatic insufficiency may increase the risk of hypoglycemi reactions. Elderly, debilitated or mainourished patients and those with adrenal or pitulary insufficiency are particularly susceptible to the hypoglycemic action of glucose-lowering drugs. Hypoglycemia may be difficult to recognize in the elderly or people taking beta-adrenergic blocking drugs. Hypoglycemia is more likely to occur when caloric intake is deficient, after severe or prolonged exercise, when alcohol is ingested, or when more than one glucose-lowering drug is used.

Loss of Control of Blood Glucose: A loss of control may occur in diabetic patients exposed to stress such as fever, trauma, infection, or surgery. It may then be necessary to discontinue GLUCOTROL and administer insulin. Laboratory Tests: Blood and urine glucose should be monitored periodically. Measurement of glycosylated onlohin may be useful

hemoglobin may be useful. Information for Patients: Patients should be informed of the potential risks and advantages of GLUCOTROL, of alternative modes of therapy, as well as the importance of adhering to dietary instructions, of a regular exercise program, and of regular testing of urine and/or blood glucose. The risks of hypoglycemia, its symptoms and treatment, and conditions that predispose to its development should be explained to patients and responsible family members. Primary and secondary failure should also be explained.

and secondary lattice should also be explained. Drug Interactions: The hypotycemic action of sulfonylureas may be potentiated by certain drugs including nonsteroidal anti-inflammatory agents and other drugs that are highly protein bound, salicylates, sulfonamides, chloramphenicol, probenecid, coumarins, monoamine oxidase inhibitors, and beta-adrenergic blocking agents. In vitro studies indicate that GLUCOTROL binds differently than tolbutamide and does not interact with salicylate or dicumarol. However, caution must be exercised in extrapolating these lindings to the clinical situation. Certain drugs tend to produce hyperglycemia and may lead to loss of control. Including the thiazides and other diruretise, conclusteroids, advertibutive, entrogene, calcium enterprise, cherodien, including the thiazides and other diruretise, conclusteroids, calcium control and any lead to loss of control. phenothiazmes, thyroid products, estrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blocking drugs, and isoniazid. A potential interaction between oral miconazole and oral hypoglycemic agents leading to severe hypoglycemia has been reported. Whether this interaction also occurs with the intravenous, topical, or vaginal preparations of miconazole is not known.

vaginal preparations of miconazole is not known. **Carcinogenesis. Mutagenesis. Impairment of Fertility:** A 20-month study in rats and an 18-month study in mice at doses up to 75 times the maximum human dose revealed no evidence of drug-related carcinogenicity. Bacterial and *in vivo* mutagenicity tests were uniformly negative. Studies in rats of both sexes at doses up to 75 times the human dose showed no effects on fertility. **Pregnancy:** Pregnancy Category C; GLUCOTROL (glipizide) was found to be mildly letotoxic in rat reproductive studies

at all dose levels (5-50 mg/kg). This fetotoxicity has been similarly noted with other sulfonvlureas, such as tolbutamide and table and the second se risk to the fetus

risk to the fetus. Because recent information suggests that abnormal blood plucose levels during pregnancy are associated with a higher incidence of congenital abnormatifies, many experts recommend that insulin be used during pregnancy to maintain blood plucose levels as close to normal as possible. Noniteratogenic Effects: Prolongod severe hypoglycernia has been reported in neonates born to mothers who were receiving a suffonyturea drug at the time of delivery. This has been reported more frequently with the use of agents with prolonged half-lives. GLUCOTROL should be discontinued at least one month before the expected delivery date. Nursing Mothers: Since some suffonyturea drugs are known to be excreted in human milk. Insulin therapy should be considered if a using in 5 to exoting at

Considered in numering is to be continued. Pediatric Use: Safety and effectiveness in children have not been established. ADVERSE REACTIONS: In controlled studies, the frequency of serious adverse reactions reported was very low. Of 702 patients, 11.8% reported adverse reactions and in only 1.5% was GLUCOTROL discontinued.

patients, 11 of reported adverse reactions and in only 13% was GLUCOTIFUE discontinued. Hypoglycemia: See PRECAUTIONS and OVERDOSAGE sections. Gastrointestinal: Gastrointestinal disturbances, the most common, were reported with the following approximate incidence: nausea and diarrhea, one in 70; constipation and gastralgia, one in 100. They appear to be does-related and may disappear on division or reduction of dosage. Cholestatic jaundice may occur rarely with sulforylureas: GLUCOTROL should be discontinued if this occurs.

De discutinities it may bodies. Dermatologic: Allergic skin reactions including erythema, morbilliform or maculopapular eruptions, urticaria, pruritus, and eczema have been reported in about one in 70 patients. These may be transient and may disappear despite continued use of GLUCOTROL; if skin reactions persist, the drug should be discontinued. Porphyria cutanea tarda and photosensitivity reactions have been reported with sulfonylureas.

Hematologic: Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia, aplastic anemia, and pancytopenia have been reported with sulfonylureas.

Metabolic: Hepatic porphylia and disulfiram-like alcohol reactions have been reported with sulfonylureas. Clinical experience to date has shown that GLUCOTROL has an extremely low incidence of disulfiram-like reactions. Endocrine Reactions: Cases of hyponatremia and the syndrome of inappropriate antidiuretic hormone (SIADH) secretion

Endocrine Reactions: Cases of hyponatremia and the syndrome of inappropriate antidiuretic hormone (SIADH) secretion have been reported with this and other sulfory/ureas. Miscellaneous: Dizziness, drowsiness, and headache have each been reported in about one in fifty patients treated with GLUCOTROL. They are usually transient and seldom require discontinuance of therapy. **DVERDOSABE:** Dvertosage of sulfory/ureas including GLUCOTROL can produce hypoglycemia. If hypoglycemic coma is diagnosed or suspected, the patient should be given a rapid intravenous injection of concentrated (50%) glucose solution. This should be followed by a continuous initision of a more dilute (10%) glucose solution at a rate that will maintain the blood glucose at a level above 100 mg/dL. Patients should be closely monitored for a minimum of 24 to 48 hours since hypoglycemia may recur after apparent clinical recovery. Clearance of GLUCOTROL, trom plasma would be prolonged in persons with liver disease. Because of the extensive protein binding of GLUCOTROL, dialysis is unlikely to be of benefit. **DOSAGE AND ADMINISTRATION:** There is no fixed dosage regimen for the management of diabetes mellitus with GLUCOTROL in general, it should be given approximately 30 minutes before a meal to achieve the greatest reduction in postpariadial hyperglycemia.

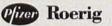
DUSAGE AND ADMINISTRATION: There is no todo dosage regimen for the management of doubtes mentuus with postprandial hyperglycemia. Initial Dose: The recommended starting dose is 5 mg before breaklast. Geriatric patients or those with liver disease may be started on 2.5 mg. Dosage adjustments should ordinarily be in increments of 2.5–5 mg, as determined by blood glucose response. At least several days should elapse between thration steps.

Maximum Dose: The maximum recommended total daily dose is 40 mg. Maintenance: Some patients may be effectively controlled on a once-a-day regimen, while others show better response with divided dosing. Total daily doses above 15 mg should ordinarily be divided.

HOW SUPPLIED: GLUCOTROL tablets are white, dye-free, scored, diamond-shaped, and imprinted as follows:

Tom — Pitcer 411; 10 mg — Pitcer 412. 5 mg Bottles: 100's (NDC 0049-4110-66); 500's (NDC 0049-4110-73); Unit Dose 100's (NDC 0049-4110-41) 10 mg Bottles: 100's (NDC 0049-4120-66); 500's (NDC 0049-4120-73); Unit Dose 100's (NDC 0049-4120-41) **CAUTION:** Federal law prohibits disper ising without prescription

More detailed professional information available on request



FREEDOM FROM PAIN!

Extra strength pain relief free of extra prescribing restrictions.

Telephone prescribing in most states
 Up to five refills in 6 months
 No triplicate Rx required

15 years of proven clinical experience

- · Effective central and peripheral pain relief.
- Excellent patient acceptance—nausea, sedation and constipation have rarely been reported.¹
- Four to six hours of extra strength pain relief from a single dose.
- The heritage of VICODIN^{®*} over one billion doses prescribed.²
- The 8th most frequently prescribed medication in America.²



Extra strength pain relief you can phone in.

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)

Maintain control of your patient's pain therapy.

Specify Do not substitute

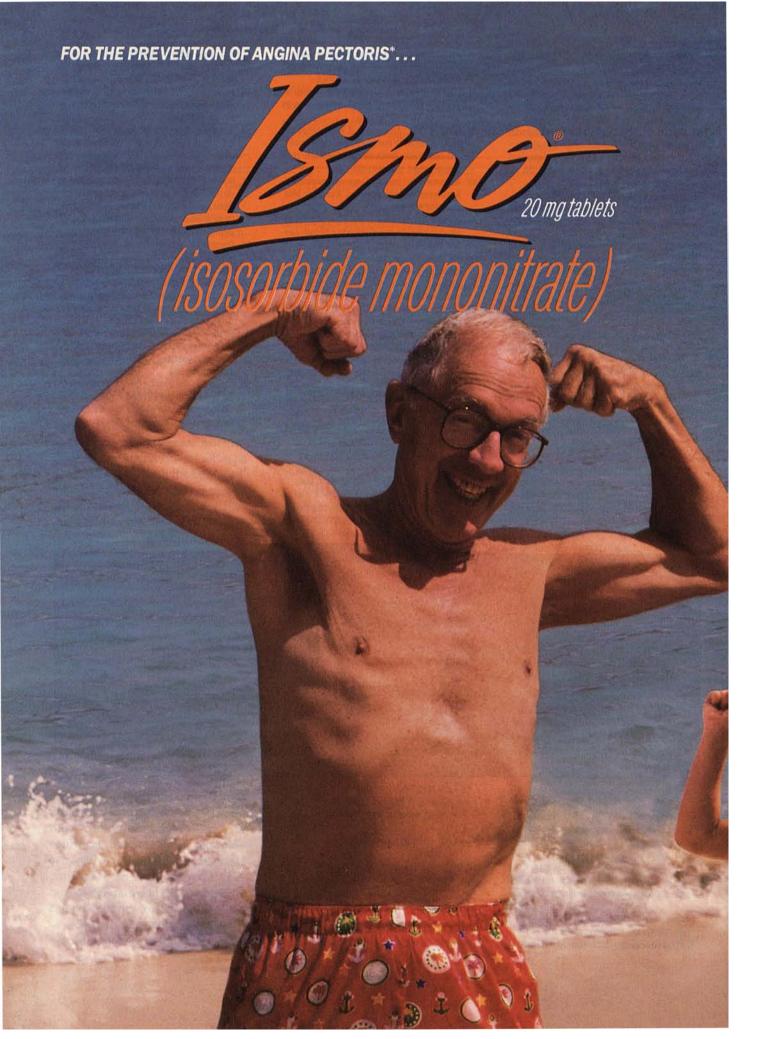
(hydrocodone bitartrate 7.5mg (Warning May be habit forming) and acetaminophen 750mg)

It's your prescription not a suggestion.

INDICATIONS AND USAGE: For the relief of moderate to moderately severe pain. CONTRAINDICATIONS: Hypersensitivity to acetaminophen or hydrocodone. WARNINGS: Respiratory Depression: At high doses or in sensitive patients, hydrocodone may produce dose-related respiratory depression. Head Injury and Increased Intracranial Pressure: The respiratory depressant effects of narcotics and their capacity to elevate cerebrospinal lluid pressure may be markedly were the administration of narcotics may obscure the dinajous or clinicatical curse of patients with hard between the main discovere the clinical curse of patients with acute abdominal conditions. PRECAUTONS: Special Risk Patients: VICODIN/VICODIN ST fablets should be used postoperatively and in patients with acute abdominal conditions. PRECAUTONS: Special Risk Patients: VICODIN/VICODIN ST fablets are used postoperatively and in patients with pulmonary disease. Drog Interactions: That ensist receiving other narcotic analgesis, antipayschotic, antianizely agents, or other CNS depressant (including alcohol) concurrent use of anticholinergics with hydrocodone may produce paralytic ileus. Usage in Pregnancy: Teratogenic Effects: Pregnancy Category C. Hydrocodone has been shown to be teratogenic in hamsters when given in doses 700 times the human dose. There are na dequate and well-controlled studies in pregnant wome. VICODIN/VICODIN ST fablets should be used to the terus. Monteratogene (Ffects: Bisb born to mothers who have been taking opioids regularly prior to delivery will be physically dependent. The withdrawal signs include initiality and exercised in human milk and because of the potential first, the secause many recases the respiratory depression in the methory patients and some of these adverse reactions in nursing infants from VICODIN/VICODIN ES fablets advective reaction in nursing infants from VICODIN/VICODIN ES fablets advective reaction in the methor shorthy because of the potential first, the text in human milk and because of the potential for serious adver repeated administration of narcotics; therefore, VICODIN/VICODINES lablets should be prescribed and administered with caution. **UVERDOSAGE:** Acetaminophen Signs and **Symptoms**: In acute acetaminophen overdosage, dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and thrombocytopenia may also occur. Early symptoms following a potentially hepatotoxic overdose may include: nausea, vomiting, diaphoresis and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be apparent until 48 to 72 hours post-ingestion. Hydrocodone Signs and Symptoms: Serious overdose with hydrocodone is characterized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, (cyanosis), extreme somnolence progress-ing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, and sometimes bradycardia and hypotension. In severe overdosage, apnea, circulatory collapse, catdiac arrest and death may occur.

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





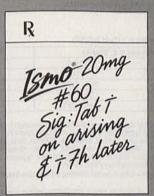
ACTIVITY YOU CAN COUNT ON

Demonstrated efficacy for at least 12 hours after the first dose (ie, 5 hours after the second dose)

Avoids tolerance and rebound when dosed as recommended⁺

The most common side effect, headache, may be resolved with mild analgesics. As with other long-acting nitrates, Ismo is not recommended in patients with acute myocardial infarction or congestive heart failure.

*Ismo is not recommended for use in aborting acute anginal episodes.
† The dosing schedule of 20 mg, twice daily, 7 hours apart (with a 17-hour dose-free interval) must be followed carefully.





Please see brief summary of prescribing information on adjacent page.

Sino[®] (isosorbide mononitrate) 20 mg tablets

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 renal,

hepatic, or cardiac dystunction, 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 ismoinduced 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 us 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. No mutagenic activity was seen in *in vitro* or *in vivo* assays. 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
Dose	Placebo	20 mg	(varied)
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%)

Schemer 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; pruritus, rash. Gastrointestinal; abdominal pain, diarrhea, dyspepsi, tenesmus, tooth disorder, vomiting. Genitourinary; dysuria, impotence, urinary frequency. Miscellaneous; asthenia, blurred vision, cold sweat, diplopia, edema, malaise, neck stiffness, rigors. Musculoskeletal; arthnalgia. Neurologic; agitation, anxiety, confusion, dyscoordination, hypoesthesia, 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).

Hatery, ordinary upsets or organic inneres nere causes indecember of 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; vertion; pabliations; visual disturbances; nausea and vomiting (possibly with colic and even bloody diarrhea); syncope (especially with upright posture); ari 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 hypovolemia; therefore, direct therapy toward an increase in central fluid volume. Use of arterial vascoconstrictors (e.g. 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.

We consider the same of the same of the same of the same and the same interaction of the same interaction. 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 areain 20,000 sectors in patients blood is chocociate brown, without color change on exposure to air. The treatment of choice for methemoglobinemia is association with avenually.

DOSAGE AND ADMINISTRATION

DosAdd Ald 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**).

Avoid the development of refractory (defaulte (see Cinical narmacology). Well-controlled studies have shown that tolerance to Isoma 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

AHROBINS





© 1992, Wyeth-Ayerst Laboratories

DIRECTOR, EMPLOYEE HEALTH SERVICE/FACULTY POSITION-

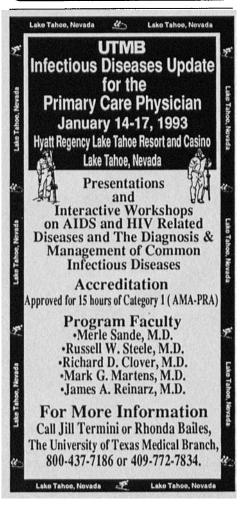
The Bowman Gray School of Medicine of Wake Forest University and North Carolina Baptist Hospitals, Inc, seeks a Medical Director of their combined Employee Health Service. The successful candidate will supervise an administrative manager, physician assistant and a staff of nurses to provide comprehensive occupational health services to over 8,500 employees. Responsibilities for this full-time faculty position may include program development, administration, clinical care, teaching and research. Academic appointment will be commensurate with level of experience in the department most allied with the candidate's interest and qualifications BC/BE in occupational medicine is desirable. Experience in primary care or occupational medicine is essential. Send CV to:

Dr. Joseph Konen,

Chair, Employee Health Medical Director Search Committee.

Department of Family and Community Medicine, The Bowman Grav School of Medicine, Medical Center Blvd. Winston-Salem, NC 27157 (919) 748-4982.

BGSM and NCBH are Equal Employment Opportunity/Affirmative Action Employers.



CME *AMT Video Digest*

Earning CME used to mean the hassle of travel, and time away from home. But times have changed. American Medical Television has just made CME a lot more convenient for you. AMT Video Digest lets you earn CME credit on your own schedule, at home, in the office virtually anywhere there's a VCR. AMT Video Digest is designed for all physicians regardless of specialty.

Two Hours of CME Credit Every Month

AMT Video Digest presents the best of American Medical Television — medical news, clinical advances, specialty meeting highlights, legislative updates, practice management information — convenient, condensed, commercial-free, on videocassette.

Cost-effective and Convenient

AMT Video Digest is a monthly VHS videocassette worth 2 credit hours of **CME**. The American Medical Association has designated **AMT Video Digest** for 24 hours of **CME** credit yearly toward completion of the AMA Physician's Recognition Award. All at a fraction of what other **CME** programs cost, with the added convenience of studying at home.

Owning your personal video medical library means you can schedule **CME** to fit your lifestyle. Review programs as often as you like. You can even share them with your colleagues.

Twelve Hours of CME for \$115

A six month subscription to **AMT Video Digest** is available to AMA members for \$115 (non-members \$135). That's less than \$10 a credit hour.

Order your subscription to **AMT Video Digest** now. Your next continuing medical education program can be as close as your VCR and as convenient as clicking a button.

Call toll free to order 800 398-CNBC and specify Digest Offer #555.

American Medical Association Physicians dedicated to the health of America



MERICA

TELEVISION

In mild to moderate bacterial infections*

DISPOSIONAL CONTRACTOR OF CONT

Full-course antibiotic therapy with just 5 once-daily doses

ONCE DAILY FOR 5 DAYS PONCE DAILY FOR 5 DAYS PONCE DAILY FOR 5 DAYS (AZITHRONYCIN) 250-mg capsules

* Due to susceptible strains of indicated organisms. © 1992, Pfizer Inc Please see adjacent page for brief summary of prescribing information.

PINPOINTS. PENETRATES. PREVAILS.



- For respiratory infections such as acute bacterial exacerbations of COPD (chronic bronchitis) and uncomplicated skin infections: 500-mg single dose on day 1; 250 mg once daily on days 2 through 5. Total dose is 1.5 g.
- Zithromax should be given either 1 hour . before or 2 hours after a meal.
- A favorable safety profile with a low (0.7%; n=4949) discontinuation rate due to side effects. . In multidose trials, the most common side effects were diarrhea/loose stools (5%), nausea (3%), and abdominal pain (3%)!

References: 1. Data on file. Pitter Inc, New York, NY. 2. Babdwin DR, Wise R, Andrews JM, Ashiby JP, Honeybourne D. Anthromycin concentrations at the sites of pulmonary infection. *Eur Respir J* 1990;3:88-890. 3. Girand AE, Cianochowski CR, Fasiella JA, Correlation of increased astheomycin levels with phagocyte infiltration into sites of infection. JAbstract 7621 Thirtieth Interacience Conference on Antimicrobial Agents and Demotherary; 1990. 4. Restama J, Bergeron J, Girand D, Wilsam W, Scholsh W, Girard A. Preferential concentration of anthromycin in infected mease thighs as compared to contralistinal non-infected thighs. [Abstract A 53] Bit General Meeting of the American Society for Microbiology, 1991. 5. Gladed NP, Bright GM, Asaccion FE, Newtopp MF: In vitro and in vivo uptake of anthromycin (CP-62.933) by phagocyclic cells: possible mechanism of delivery and release at sites of infection. *Antimicrobi Agents Chemether*, 1993 3277-202. Chemother, 1989.33.277-282

ZITHROMAX[®] (axithromycin) CAPSULES BRIEF SUMMARY INDICATIONS AND USAGE

ZITHROMAX® (arithromycin) is indicated for the treatm AX® (arithromycin) is indicated for the treatment of individuals 15 years of age and older with mild to moderate infections is see WARNINGS) caused by susceptible strains of the designated microorganisms in the specific conditions listed below

Lower Respiratory Tract Acute bacterial exacerbation

ns of chronic obstructive pulmonary disease due to Haemophilus influenzae, Moraxella catarrhalis, or Streptococcus preur

Community-acquired pneumonia of mild severity due to Streptococcus pneumoniae or Haemophilus influenzae in patients appropriate for outpatient oral therapy

outpation confidences in patients with pneumonia who are judged to be inappropriate for outpatient oral therapy because of moderate to severe illness or risk factors such as any of the following: patients with neosono are suspected bacteremia, patients with known or suspected bacteremia, patients requiring hospitalization, elderly or debilitated patients, or patients with significant underlying health problems that may compromise their ability to respond to their illness (including immundeficiency or functional asplenia).

(Including immediatements) or interaction of the set of autoria el telesano de Conferences - publicipación y autoria alcana de paratimos vinar parante al de alcana el Balancia de Sun Structure Uncomposited sola nel sún entretuctura infectiones due lo Staphylococcus aureus, Streptococcus programs, or Streptococcus agalactiae.

Abson es usually require surgical drainage

Ablocesse usually require surgest dramage Sexually Transmitted Disease. Non-genococcal urathritis and cervicitis due to Chlamydia trachomatis. ZTHRIDNAMS², at the recommended does, should not be relied upon to treat genorthea or syphilis. Antimicrobial agents used in high does for shart periods of time to treat non-genococcal urathritis may mask or delay the symptoms of incubating genomehae or syphilis. Application of the system o is confirmed

a commence Appropriate culture and susceptibility tests should be performed before treatment to determine the causative organism and its susceptibility to authromycin. Therapy with ZTHROMAX[®] may be initiated before results of these tests are known; once the res become available, antimicrobial therapy should be adjusted accordingly.

CONTRAINDICATIONS ZITHROMAX® is contraindicated in patients with known hype

wcin, erythromycin, or any macrolide antibiotic

20114ROMAX® is contraindicated in patients with known hypersensitivity to astitromycin, srythromycin, or any macrolide antibiotic: WARNING Ren sensous allergic reactions, including angioedeme and anaphylaxis, have been reported in patients on asithromycin therapy. (See CONTRAINDICATIONS) Despite initially successful symptomatic meatment of the allergic symptoms, when symptomatic therapy will discontinued, the allergic symptoms received soon thereafter is a some patients without further activitoary initial of antibiotic initial of antibiotyment and subsequence produced symptomatic treatment. The relationship of these opisodes to the long tissue half-life of antibiotyment and subsequence produced symptomatic treatment. The relationship of these opisodes to the long tissue half-life of antibiotyment and subsequence produced symptomatic treatment. The relationship of these opisodes to the long tissue half-life of antibiotyment and subsequence produced symptoms are carried as indexing a subsequence of the allergic symptoms may occur when symptomatic therapy takeon therapy is a subsequence of the allergic symptoms may occur when symptomatic therapy takeon to be safe and effective in the treatment of presented a community-acquiring presumenia, azithromycin has only been shown to be safe and effective in the treatment of participants appropriate for outpatient or all therapy. Azithromycin theorem is patients with neuronal who are judged to be inappropriate for outpatient or all therapy. Azithromycin therapy indicates to saver site factors such as any of the following: astients with neaccommity acquired indications.

Inputent or al therapy because of moderate to severe inness or risk factors such as any of the following: patients with nosocomially acquired infections, patients with known or suspected bacteremia, patients requiring hospitalization, elderly or debilitated patients, or patients with significant underlying health problems that may compromise their ability to respond to their illness (including immunodeficiency or functional asplenia).

Including immunodeficiency of functional asplenia). Pseudomembranous colitis has been reported with nearly all antihacterial agents and may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antihacterial agents. Treatment with antibacterial agents arises the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxing produced by Clostridian difficults is a primary cause of "antibinio-associated colosis." After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be initiated. Mild cases of pseudomembranous colitis usually respond to discontinuation of the drug alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug effective against *Clostridium difficile*.

PRECAUTIONS

General: Bacause arithromycin is principally aliminated with the two: catation should be exercised when arithromycin is administered to patients with impaired hepatic function. There are no data regarding anthromycin usage in patients with renal impairment; thus caution should be exercised when prescribing arithromycin in these patients. The following adverse worth has not been reported in clinical trials with anthromycin, an analide. However, it has been reported with macrolide products: ventricular arthythmias, including ventricular tachycardia and torsades de pointes, in individuals with prolonged QT

Information for Patients: Patients should be cautioned to take this medication at least one hour prior to a meal or at least two hours after

ONCE DAILY FOR 5 DAYS

(AZITHROMYC

2

3

4

250-mg

5

ron

Day 1-

STAT

a result. This medication should not be taken with food. Patients should also be cautioned not to take aluminum: and magnesium containing antacids and arithromycin simultaneously. The patient should be directed to discontinue arithromycin immediately and contact a physician if any signs of an allergic reaction occur. Drug Interactions: Aluminum: and magnesium-containing antacids reduce the peak serum levels (rate) but not the AUC (extent) of mycin absorption.

authromycin absorption. Administration of cimetidine (800 mg) two hours prior to axithromycin had no effect on axithromycin absorption. Authromycin do nut affect the plasma levels or pharmacokinetics of theophyline administered na a single intravenous dose. The effect of axithromycin on the plasma levels or pharmacokinetics of theophyline administered in multiple doses resulting in threapeut: ateady state levels of theophyline line in threapeut. Therefore, until further data are available, prudent medical practice dictates careful monitoring of plasma theophyline levels in patients receiving authromycin and theophyline hadronetical thread theophyline latent are available, prudent medical practice dictates careful monitoring of plasma theophyline levels in patients receiving authromycin and theophyline lowers, prudent medical practice dictates careful monitoring of prothombin time in all patients treated with azithromycin and warfain concomitantly. Concurrent use of macrolides and advarfain in clinical practice has been associated with increased anticoagulari effects. The following drug interactions have not been reported in clinical traits with azithromycin; however, no specific drug interaction studies have been operformed to available optication divide interactions montheless. The have been observed with macrolide practice dictates. Until further data are developed negarding drug interactions when azithromycin and these drugs are used concomitantly, careful monitoring of patients is advised.

patients is advised.

Digoion—elevated digoxin levels. Ergotamine or dihydroargotamine—acute ergot toxicity characterized by severe peripheral vasospasm and dysesthesia. Tracolam—decrease the clearacter of triazolam and thus may increase the pharmacologic effect of triazolam. Drugs metabolized by the cytochrome P_{ESD} system—elevations of serum carbamazepine, cyclosporine, hexobarbital, and phenytoin

Investigned and the second sec

In clinical trials most of the reported side effects were mild to moderate in severity and were reversible upon discontinuation of the drug. Approximately 0.7% of the patients from the meltiple does clinical trials discontinuation 2THROMAX[®] (arithromycin) therapy because of treatment related side effects. Most of the side effects leading to discontinuation were related to the gastrointestinal tract, e.g., neusea, vomiting, disantee, or abdominal pain. Rare, but patentially serious side effects, were angloedema and chelestatic jaundice. Multiple-dose regiment: Overall, the most common side effects in patients

Multiple-dose regimen: Overall, the most common side effects in patients receiving the multiple-dose regimen of 2/THROMAX® were related to the gastrointestinal system with diarrhea/loose stools (5%), nausea (3%), and abdominal pain (3%) being the most frequently

reported. No other side effects occurred in patients on the multiple-dose regimen of ZTHROMAX® with a frequency greater than 1%. Side effects that occurred with a frequency of 1% or less included the following: Cardiovascular: Palpitations, cheat pain Gastrointestinations, Dyaposia, fluidunce, vomiting, melena, and cholestatic jaundice. Genitorinary: Monila, veginitis, and nephritis. Nervous System: Diziones, headache, vertigo, and somolence. General: Faigue. Allergie: Rash, photosemithy, and angioedema. Sinole 1-oram dase regime: Owards. The most common side effects in patients receiving a sinole-dose regime of 1 gram of ZTHROMAX®

General: Fatque. Altergie: Rash, photoaensitivity, and angioedema. Single 1-grant dose regimen: Ownall, the most common side effects in patients receiving a single-dose regimen of 1 grant of ZITHROMAX[®] were related to the gastrointestinal system and were more frequently reported than in patients receiving the multiple dose regimen. Side effects that occurred in patients on the single one-grant dosaing regimen of ZITHROMAX[®] with a frequency of 1% or greater included diarrhea/loose stools (7%), nausea 15%), vomiting (2%), and vagnitis (2%). Laboratory Abnormalities: Significant abnormalities (irrespective of dway relationship) occurring during the clinical trials were reported as follows:

With an incidence of 1-2%: elevated serum creatine phosphokinase, potassium, ALT (SGPT), GGT, and AST (SGOT).

With an incidence of iss than 15% leukopein, exutropenia, decreased platelet count, elevated serum alkaline phosphatase, billrubin, With an incidence of less than 15% leukopein, exutropenia, decreased platelet count, elevated serum alkaline phosphatase, billrubin, BUN, creatinine, blood glucose, LDH, and phosphate. When follow-up was provided, changes in laboratory tests appeared to be reversible. In multiple-doce clinical traits in revolving more than 3000 patients, 3 patients discontinued therapy because of treatment-related liver enzyme abnormalities and 1 because of a renal function abnormality.

DOSAGE AND ADMINISTRATION (See INDICATIONS AND USAGE) ZITHROMAX[®] farithromovid phond be power at least 1 hour bolice or 2 hours after a meal. The recommended dose of ZITHROMAX[®] for the treatment of individuals 16 years of age and older with mild to moderate acute bacterial exacentrations of churic obstructive pulmenary disease, pneumonia, pharynginy, transitilist las second-line therapy), and uncomplicated axis and skin structure infections due to the indicated organism is: 500 mg as a single dose on the first day followed by 250 mg once daily on days 2 through 5 for a total dose of 1.5 grans of ZITHROMAX[®]. The recommended dose of ZITHROMAX[®] for the treatment of non-geneoccal untitritis and envicits due to C. Landomatis is: a single 1 gram (1000 mg) dose of ZITHROMAX[®].

More detailed professional information available on request Revined October 1992





DOSAGE AND ADMINISTRATION (See INDICATIONS AND USAGE)

INDEX TO ADVERTISERS

Abbott Laboratories
Bowman Gray School of Medicine
Center Laboratories, Division of EM industries, Inc
Geigy Pharmaceutical
Hoechst-Roussel Pharmaceuticals, Inc
Janssen Pharmaceuticals
Knoll Pharmaceuticals
Lea & Febiger 168 Lederle Laboratories 163-164, 224A-B Lever Brothers Company 162 Eli Lilly & Company 256A-D
Marion Merrell Dow, Inc. 246-248 McNeil Consumer Products Company 249
Ortho Pharmaceutical Corporation216A-D
Pfizer Laboratories Division, Pfizer, Inc
Rhone-Poulenc Rorer
Sandoz Pharmaceuticals
University of Texas Medical Branch
Wyeth-Ayerst Laboratories
While every precaution is taken to ensure accuracy, we cannot guarantee against the possibility of an occasional change or omission in the preparation of this index.



(IV47104CHV) GUUTING LEMENTS Event selections of the synchrome of astma, rhinitis, and nasa MAPROSYN, AMAPROX or AMAPROX Do or in whom aspirit or other NSUDS induce the synchrome of astma, rhinitis, and nasa polyns, urticata, and hypotension associated with NSUDS before starting therapy. If such symptoms courd discontinue the drug, Warnhage: Serious GI toxicity such as bleeding, ulceration, and perforation can occur al any time, with or without warning symptoms, in patients treated chronically with NSUDS. Remain absence of provious GI traces symptoms c. In other torcur in apportaniatory XFO patients treated for one year. Inform patients absence of provious GI traces symptoms c. In other torcur in apportaniatory XFO patients treated for one year. Inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take If they occur. Studies have not identified any subset tactoris known to be associated with peptic ulcer disease, such as actobilism, moking etc. no risk factors (etc. ga app. soy) have been associated with increased risk. Elderly or debilitation patients actobilism, moking etc. no risk factors (etc. ga app. soy) have been associated with increased risk. Elderly or debilitation patients actobilism, solding apptic ulceration and bleeding Leapt ton SOLUM SINGE. THEY BOTT (CRCUATE TIN PLASMA AS THE NAPROXEN SOLUM) OR AMAPROXE DS NUT GIVE ARAPROXEN SOLUMA) OR AMAPROXE - DS NUT GIVE ARA

Incidence of reported reaction 3%-9%. SYNTEX

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