Today's hypertensives with new concerns...

# **CARDURA GENERATION**

ONCE-A-DAY

# 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.<sup>13</sup>

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) Scored Tablets 1 mg, 2 mg, 4 mg, 8 mg HYPERTENSION CONTROL FOR A NEW GENERATION.

#### ONCE-A-DAY CARDURA doxazosin mesylate) Scored Tablets 1 mg, 2 mg, 4 mg, 8 mg

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

CARDURA (doxazosin mesvlate) is indicated for the treatment of hypertension

CARDURA must meghan be used alone or in combination with diuretics or beta-adrenergic blocking agents. There is limited experience with CARDURA in combination with anglotensin converting enzyme inhibitors or calcium channel blockers. CONTRAINDICATIONS

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

#### Syncope and "First-dose" Effect:

Syncope and "First-dose" Effect: Dozazosin, itse other alpha-admengic blocking agents, can cause marked hypotension, especially in the upright 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 if therapy is interrupted for more than a few days. To decrease the likelihood decreases hypotension and syncope, it is essential that treatment be initiated with the 1 mg dose. The 2, 4, and 8 mg tables the can first occurs.

urrement or initiates with the 1 mg does. The 2, 4, and 8 mg tablets are not for initiat therapy. Dosage should then be adjusted slowly (see DOSAGE AND ADMINISTRATION social with increases in does every two weeks. Additional antihypertensive agents should be added with caution. Patients being litrated with doczasonis should be cautioned to avoid situations where injury could result should syncope occur. In an early investigational study of the safety and tolerance of increasing daily doese of doczasonis in normatingwise havioning of 1 mg/due and 2 af 6.

In the same and th receiving initial doses of 2 mg/day of doxazosin, seven (29%) of the subjects experienced symptomatic postural hypotension between 0.5 and 6 hours after the first dose necessitating termination of the study. In this study 2 of the

the first dose necessitating 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 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 mp/day. 16 mg/day

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

#### General 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 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, v 8 mg per day. There was an increased frequency of orthostatic effects in patients given 8 mg or more, 10%, compared to 5% at 1–4 mg and 3% in the placebo group.

Patients in occupations in which orthostatic 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:

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 separience 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 (reading) were decreased by 2.4% and 1.5% respectively, compare to bipacedo, 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/mm<sup>2</sup> 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 summerative as a result of the low WBC or neutrophil counts returned to the low WBC or neutrophil counts returned to a prove the second or the low WBC or neutrophil counts (the second or neutrophil counts (the low WBC) or neutrophil counts (the low WBC) and the low WBC or neutrophil counts (the low WBC) and the low WBC) or neutrophil counts (the low WBC) are neutrophil counts (the low WBC) and the low WBC) are neutrophil counts (the low WBC) 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 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 wave strategy miles to early a second of the strategy and the strategy. They should also be advised of the need to sit to lie down when symptoms of lowered blood pressure accur, although these symptoms are not always orthostatic, and to be careful when rising from a sitting or lying position. If diziness, lightheadedness, or palpitations are obthersome 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 Drug Interactions: Most (98%) of plasma doxazosin is protein bound. In vitro data in human

whos (do w) of plasma doozdatin's protein bound. In vivo data in ritinan's plasma indicate that CARDURA has no effect on protein binding of digoxin, warfarin, phenytoin or indomethaain. There is no information on the effect of other highly plasma protein bound drugs on doazasols hinding. 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:

Cardiac Toxicity in Animals:

Cartiae Toxicity in Animate: 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 (155 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 doxazoarking/dg/dy for 18 months. No cardiotoxicity was observed at lower doses (up to 10 or 20 mg/kg/day, depending on the study) in either species. These lesions were not observed after 12 months of oral dosing in dogs and Wistar rats at maximum doses of 20 mg/kg/day and 100 mg/kg/day, respectively. There is no evidence that similar lesions occur in humans. **Carcinogenesis, Mutagenesis and Impairment of Facility**. 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 actrioponenicity in rats. There was also no evidence of participane evidence of a carcinogenicity in rats. There was also no evidence of carcinogenicity in a similarly conducted study (up to 18 months of dietary administration) in mice. The mouse study, however, was compromised by the failure to use a maximality

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

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

#### Pregnancy

Prepanacy Teratogenic Effects, Pregnancy Category B. Studies in rabbits and rats at daily oral doese of up to 40 and 20 mg/kg, respectively (150 and 75 times the maximum recommended daily does of 16 mg, assuming a patient weight of 60 up), have revealed no evidence of harm to the fetus. The rabbit study, however, kg), have revealed no evidence of harm to the fetus. The rabbit study, however, was compromised by the failure to use a maximally tolerated dose of doxazosin. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response. CARDURA should be used during pregnancy only if clearly needed. Radioactivity was found to cross the placenta following oral administration of labelled doxazosin to pregnant rats. Nonteratogenic Effects. In peri-postnatal studies in rats, postnatal development at maternal doses of 40 or 50 mg/kg/day of doxazosin was delayed as evidenced by slower body weight gain and a slightly later appearance of anatomical features and reflexes.

and reflexes

Nursing Mothers Studies in lactating rats given a single oral dose of 1 mg/kg of [2-\*\*C]-doxazosin Indicate that dovazosin 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. Beases many drugs are excreted in human milk, caution should be exercised when CARDURA is administered to Pediatric Use red to a nursing m

Safety and effectiveness in children have not been established.

#### 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 occurred in 49% and 40% of patients in the doxazosin and placebo groups, respectively, and led to discontinuation in 2% of patients in each group. The major reasons for discontinuation were postural effects (2%), edema, malaise/fatigue, and some heart rate disturbance, each about 0.7%.

near rate disturbance, each about 0.7%. In controlled clinical triatis directly comparing CARDURA to placebo there was no significant difference in the incidence of side effects, except for dizziness (including postural), weight gain, somolence and fatigue/ malaise. Postural effects and edema appeared to be dose related. The prevalence rates presented below are based on combined data from

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

#### TABLE 1 ADVERSE REACTIONS DURING PLACEBO CONTROLLED STUDIES

		DOXAZOSIN (N=339)	PLACEB0 (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%

References: 1. Pickning TG, Hypertension and Lipid Trial Study Group. The use of 24-hour ambulatory monitoring in the assessment of anthypertensive therapy. Presented at the American Academy of Tamily Physicians 43rd Annual Assembly, September 24-29,1991; Washington, D.C. 2. The Treatment of Mid Hypertension Research Group. The Treatment of Mid Hypertension Study, a randomized, placebo-controlled trial of a nutritional-hygienic regimen along with various drug moondinerapies. Arch Intern Med. 1991;151:1413-1423. 3. Leithnern A, the Finnsh Multicenter Study Group. Lowerdo ellevis of serum institu, glucosa, and cholestera in hypertensive patienth during treatment with doxazosin. Curr Ther Res. 1990;47:278-284.

		DOXAZOSIN (N=339)	PLACEBO (N=335)
AUTONOMIC:	Mouth Dry	2%	2%
	Flushing	1%	0%
SPECIAL SENSES:	Vision Abnormal	2%	1%
	Conjunctivitis/Eye Pain	1%	1%
	Tinnitus	1%	0.3%
PSYCHIATRIC:	Somnalence	5%	1%
	Nervousness	2%	2%
	Depression	1%	1%
	Insomnia	1%	1%
	Sexual Dysfunction	2%	1%
GASTROINTESTINAL:	Nausea	3%	4%
	Diarrhea	2%	3%
	Constipation	1%	1%
	Dyspepsia	1%	1%
	Flatulence	1%	1%
	Abdominal Pain	0%	2%
	Vomiting	0%	1%
RESPIRATORY:	Rhinitis	3%	1%
	Dysonea	1%	1%
	Epistaxis	1%	0%
URINARY:	Polvuria	2%	0%
	Urinary Incontinence	1%	0%
	Micturation Frequency	0%	2%
GENERAL	Fatigue/Malaise	12%	6%
	Chest Pain	2%	2%
	Asthenia	1%	1%
	Face Edema	1%	0%
	Pain	2%	2%

Additional adverse reactions have been reported, but these are, in general, not distinguishable from symptoms that might have occurred in the absence of exposure to doxazosin. The following adverse reactions occurred with a frequency of between 0.5% and 1%: syncoper, hypoesthesia, 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. *Cardiovascular System:* angina pectoris, myocardial infarction, cerebrovascular accident; Autonomic Nervous System: pallor; Metabolic: thirst, gout, hypokalemia; Hematopoietic: hymphadenopathy, purpura; Reproductive System: breast pain; Skin Disorders: alopecia, dry skin, eczema; Central Nervous System: paresis, tremo: twitching, contusion, migraine, impared concentration; paresis, tremor, twitching, confusion, migraine, impaired concentration; Psychiatric: paroniria, amnesia, emotional lability, abnormal thinking, depersonalization; Special Senses: parosmia, earache, taste perversion, photophobia, abnormal lacrimation; Gastrointestinal System: increased appetite protection and a sectimation of a section of the se

System: not rushes, back pain, intection, teve/mgors, decreased weight, influenza-like symptoms. CARDURA has not been associated with any clinically significant changes in routine biochemical tests. No clinically relevant adverse effects were noted on serum potassium, serum glucose, unic aid, blood urea nitrogen, creatinine on liver function tests. CARDURA has been associated with decreases in white Need relie environ (Can Decenting). blood cell counts (See Precautions). OVERDOSAGE

OVENUOSALE No data are available in regard to overdosage in humans. The oral LDag of doxazosin is greater than 1000 mg/kg in mics and rats. The most likely manifestation of overdosage would be hypotension, for which the usual treatment would be intravenous infusion of fluid. As doxazosin is highly

Usual meanment would be intravenous musion or much as downosin is rightly protein bound, dialysis would not be indicated. DOSAGE AND ADMINISTRATION DOSAGE MUST BE INDIVIDUALIZED. 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 of holds after a dose. Therefore the of pressure measurements should be taken during this time period after the first dose and with each increase in dose. Depending on the individual patient's standing blood pressure response (based on measurements taken at 2-6 hours postdose and 24 hours postdose), dosage may then be increased to 2 mg and thereafter if necessary to 4 mg, 8 mg and 16 mg to achieve the desired reduction in blood pressure. Increases in dose beyond 4 mg increase the likelihood of excessive postural effects including

#### syncope, 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 (doxa 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 con

CARDURA® TABLETS are available as 1 mg (white), 2 mg (yellow), 4 mg

Consolution (access are available as a sing (write), a mg (yellow), 4 mg (crange) and 8 mg (green) societ tablets. Bottles of 100:1 mg (NDC 0049-2750-66), 2 mg (NDC 0049-2750-66), 4 mg (NDC 0049-2770-66), 8 mg (NDC 0049-2780-66) Recommended Storage: Store below 88°F(30°C). CAUTION: Federal law prohibits dispensing without prescription.

65-4538-00-0 Issued Nov 1990



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1000 mg of Extra Strength TYLENOL\* is as effective as 400 mg of ibuprofen for mild-to-moderate pain. Compared to aspirin, Extra Strength TYLENOL\* is 26% more effective (SPID) than 650 mg of aspirin. For osteoarthritis, it effectively

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References: 1. Amadio P Jr. et al. *Curr Ther Res*. 1983;34(1)53-65. 2. Bradley JD, Brandt KD, et al. *N Engl J Med*. 1991;325(2):87-91.

McNeil Consumer Products Company Division of McNeil-PPC, Inc. Fort Washington, PA 19034 U.S.A. Do not exceed eight Geicaps of Capilets per 24-hour per od. Acetaminophen in large overcoses can cause serious ad verse effects in the event of accidental overdose, contact a poison control center immediately Consumer labeling states: Do not take for pain for more than 10 days or for fever for more than 3 days unless directed by a physician

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AMP

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 heaing of active ulcer; [3] short-term treatment of active benign gastric ulcer, [4] ensive gastroesiophageal reflux disease; [5] prevention of upper gastrointestinal 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 uicers 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 anticoagulants, phenytoin, propranolol, nifedipine, chiordiazepoolde, diageam, certain thryclic antidepresants, ilodocame, theophylline and metroroidaate. Clinically significant effects have been reported with the warfarin anticoagulants; threefore, close monitoring of protriorabit time is recommended, and adjustment of the anticoagulant dose may be necessary when Tagamet is administered concomtantly. Interaction with phenytoin. Ilodocane and theophylline has also been reported to produce adverse clinical effects.

However, a crossover study in healthy subjects receiving either Tagamet 300 mg j.d. or 800 mg h.s. concomtantly with a 300 mg b.d. dosage of theophyline (Theo-Dur<sup>®</sup>, Key Pharmaceuticals, Inc.) demonstrated less alteration in steady-state theophyline 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 concomtant 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 featility or harm to the feuss due to Bagmet. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproductive studies are not kinylop 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.

be undertaken by patients taking the drug since cimetidine is secreted in human milk. Adverse Reactions: Diarrhea, dizziness, somnolence, headache, Reversibie confusional states (e.g., mental confusion, agitation, psycholas, depression, ankety, halluonations, disorientation], predominantly in severely III patients, have been reported. Reversible importence in patients with pathological trypersocretory disorders receiving Bagamet, particularly in high doses for at least 12 months, has been reported the incidence of impotence in larger-scale surveillance studies at regular doses has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly reported in the general population. Gynecomastia has not exceeded that commonly compared the general population of these reports were in patients who had selious concomitence on rechailenge. Most of these reports were in patients and very rarely, cases of pantytopenia or aglastic anemia have also been reported. As with some other hy-receptor antagonists, there have been extermely transminas have been reported. Reversible adverse hegatic effects, cholestatic or mided holestatic-hegatocelilari in nature, have been reported arely Because of the predominance of cholestatic features, seve benereported arely Because of the redominance of cholestatic features, seve benereported arely Because of the redominance of cholestatic features, seve benereported arely Bec

How Supplied: Tablets: 200 mg tablets in battles of 100; 300 mg tablets in bottles of 100 and Single Unit Packages of 100 (intended for institutional use only); 400 mg tablets in bottles of 60 and Single Unit Packages of 100 (intended for institutional use only), and 800 mg Tiltab<sup>®</sup> tablets in bottles of 30 and Single Unit Packages of 100 (intended 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).

Injections Vlaiss 300 mg/2 mL in single-dose viais, in packages of 25, and in 8 mL multi-dose viais, 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  $40^{\circ}$ C does not adversely affect the premixed product.

ADD-Vantage<sup>®</sup> Vials: 300 mg/2 mL in single-dose ADD-Vantage<sup>®</sup> Vials. 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. BFS-TGLB7

1. Data from randomized, controlled studies. On file, SmithKline Beecham Pharmaceuticals.

 Palmer RH, Frank WO, Rockhold FW, et al. Cimetidine 800 mg twice daily for healing crossions and ulcers in gastroesophageal reflux disease. J Clin Gastroenterol. 1990;12(suppl 2):S29-S34.



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# PAIN



# Put out the fire fast with Tagamet®

Over 80% of duodenal ulcer patients reported relief of nighttime pain after only one dose of *Tagamet* 800 mg Tiltab<sup>®</sup> Tablets h.s.<sup>1</sup> And *Tagamet* 800 mg b.i.d. provides prompt, continuing heartburn relief, even in severe, erosive esophagitis.<sup>2</sup>



Before prescribing, please see brief summary of prescribing information on adjacent page.

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ARCH FAM MED/VOL 1, SEP 1992 5



IN HYPERTENSION

SHIFT TO

Some CABLE! ENGINEERED FOR THE CONTROL YOU WANT, THE PROTECTIÓN THEY NEED.

R

Verapamil HCI 120 mg 180 mg 240 mg PELLET-FILLED CAPSULES

ONCE-A-DAY



ABORATORIES erican Cya sey 07470



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

Please see brief summary of Prescribing Information including CONTRAINDICATIONS, WARNINGS, and PRECAUTIONS on adjacent page.

**ROTECTS** your hypertensive patients for 24 hours'

**EDUCES** wide variations in BP control<sup>2</sup>

# EGLIGIBLE

discontinuation due to side effects'

**OSED** once daily at all doses

References: 1. Carr AA. Bottini PB. Prisant LM. et al. Once-daily verapamil in the treatment of mild-to-modreate hypertension: a clouble-blind placebo-controlled dose-ranging study. J Clin Pharmacol. 1991;31:144-150. 2. Data on file for VERELAN 240 mg, Lederle Laboratories, Pearl River, NY.

#### **Brief Summary**

#### **VERELAN®**

Verapamil HCI Sustained-Release Pellet-Filled Capsules For complete Prescribing Information, consult package insert.

CLINICAL PHARMACOLOGY

Food does not affect the extent or rate of the absorption of verapamil from the controlled release VERELAN capsule. Atrioventricular block can occur in patients without preexisting condition defects (see WARNINGS). 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 administration of ventrapamil (see WARNINGS). or atrial fibrial 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 cardiogenic 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 moder-ate-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 oplimum digitalization and/or diruretics before VERELAN is used. Verapamil may occasionally produce hypotension. Elevations of liver enzymes have been reported.

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

#### PRECAUTIONS

PRECAUTIONS Varapamili 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 trans-mission in patients with Duchenne's muscular dystrophy and may prolong recovery from the neuromuscular blocking agent vecuronium. It may be necessary to decrease verapamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenergic blockers and verapamil may result in additive negative effects on heart rate, atrioventricular conduction and/or cardiac contractility; there have been reports of excessive bradycardia and AV block, including complete heart block. The risks of such com-bined therapy may outweigh the benefits. The combination should be used only with caution and close moni-toring. Decreased metoproloi clearance may occur with combined use. Chronic verapamil treatment can

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VERELAN® verapamil HCI

increase serum digoxin levels by 50% to 75% during the first week of therapy, which can result in digitalis toxicity. In patients with hepatic cirrhosis, verapamil may reduce total body clearance and extrarenal clearance of digitoxin. The digoxin dose should be reduced when verapamil is given and the patient carefully monitored. Verapami will usually have an additive effect in patients receiving blood pressure-lowering agents. Disopyramide should not be given within 48 hours before or 24 hours after verapamil administration. Concomitant use of flecanide and verapamil and numidine therapy in patients with hypertrophic cardiomyopathy should be avoided, since significant hypotension may result. Verapamil has been given concomitantly with short- and long-acting nitrates without any undesirable drug interactions. Interaction between cimetidine and chronically administered verapamil has not be of lichlin and verapamil and preventing received and chronically administered verapamil with set of lichling result. The solution between cimetidine and chronically administered verapamil with our bay result in a lowering of serum lithium levels or increased sensitivity to lithium. Patients receiving both drugs must be monitored carefully. monitored carefully.

monitored carefully. Verapamil may increase carbamazepine concentrations during combined use. Rifampin may reduce vera-pamil bioavailability. Phenobarbital may increase verapamil clearance. Verapamil may increase serum lev-els of cyclosporine. Concomitant use of inhalation anesthetics and calcium antagonists needs careful titration to avoid excessive cardiovascular depression. Verapamil may potentiate the activity of neuromuscu-lar blocking agents (curare-like and depolarizing); dosage reduction may be required. Adequate animal car-cinogenicity studies have not been performed. One study in rats did not suggest a tumorigenic potential, and verapamil was not mutagenic in the Armes test. **Prognancy 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 vera-pamil use. Safety and efficacy of verapamil in children below the age of 18 years have not been established.

#### ADVERSE REACTIONS

ADVERSE REACTIONS Reversible (upon discontinuation of verapamil) nonobstructive, paralytic ileus has been infrequently re-ported 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 (74%); headcache (5.3%); dizziness (4.2%); leithargy (3.2%); dyspep-sia (2.5%); rash (1.4%); ankle edema (1.4%); sleep 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%); nause (2.7%); hypotension (2.5%); edema (1.9%); headcache (2.2%); rash (1.2%); CHF/pulmonary edema (1.8%); fatigue (1.7%); bradycardia (HR-SOrmin) (1.4%); AV block-total 1\*, 2\*, 3\* (1.2%); 2\* and 3\* (0.8%); flushing (0.6%); elevated liver enzymes (see WARNINGS). The following reactions, reported in 1.0% or less of patients, occurred under conditions (open trials, mar-keting experience) where a causal relationship is uncertain. Cardiovascular: angina pectoris, atrioventricu-lar dissociation, chest pain, claudication, myocardial infarction, palpitations, purpura (vasculitis), syncope. Digestive System: diarrhea, dry mouth, gastrointestinal distess, ginsval hyperplasia, Hemic and Lym-phatic: ectrymosis or bruising. Nervous System: creabrovascular accident, confusion, equilibrium disor-ders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somnolence. Respiratory: dyspena. Skin: arthraligi and rash, exanthema, hair loss, hyperkeratosis, maculae, sweating, uricana, Stevens-Johnson syndrome, erythema multiforme. Special Sense: blurred vision. Urogenital: gyneco-mastia, impotence, increased urination, spotty menstruation. Pex.192 Rev. 1/92 20801-92





by ELAN PHARMACEUTICAL RESEARCH CORP. Gainesville, GA 30501 Manufactured for LEDERLE LABORATORIES DIVISION American Cyanamid Company Pearl River, NY 10965

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# There's a method to our mildness

## A method no soap can claim

Dove<sup>®</sup> 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.

#### 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 significantly less irritation and dryness – and it halps the skin retain needed moisture, too The result: Dove leaves skin soliter and smoother than skin washed with soap So recommend Dove – for mildness no soap can touch.

MILDER TO SKIN THA

Dove

Beauty Bar and Beauty Wash Available in original and Unscent

# Membrane-controlled NICODERM<sup>®</sup>Assures

## Membrane-controlled Means That Nicotine Delivery Is Less Dependent on Skin Permeability.

Occlusive backing -

Nicotine reservoir

#### Unique — Rate-controlling Membrane

The only nicotine transdermal system that is membranecontrolled — not skincontrolled — resulting in 24-hour nicotine plasma levels that help suppress physiologic withdrawal symptoms

#### 1-

Nicotine in the adhesive laye provides rapid delivery of nicotine during the initial fev hours.

Capillaries

 Nicotine-containing adhesive

2 Nicotine delivery from

the drug reservoir thereafter depends on the rate-controlling membrane with less dependence on skin permeability. It then passes through the adhesive layer and reaches the systemic circulation via the capillaries.

# **Reproducible Delivery of Nicotine**

10-Week Weaning Program. Convenient "6-2-2" Schedule for Nicotine Elimination and Committed Quitter's Program as an Aid to a Comprehensive Behavioral Smoking-cessation Program.



6 Weeks — Initiate and maintain therapy with NICODERM 21 mg/day

2 Weeks — Step down to NICODERM 14 mg/day 2 Weeks — Step down to NICODERM 7 mg/day

Clinical study demonstrates safety in stable coronary artery disease patients\* (Start with 14 mg/day)

Smallest dimensions of any nicotine patch available. Superthin profile avoids catching on clothes

2-week packaging. Convenient for your patients to initiate treatment

The product should be used as part of a comprehensive behavioral smoking-cessation program. The use of NICODERM beyond 3 months has not been studied.

The specific effects of NICODERM on fetal development are unknown. Therefore, pregnant or nursing smokers should be encouraged to attempt cessation using educational and behavioral interventions before using pharmacological approaches. Marion Merrell Dow does not recommend use of NICODERM in pregnant women.

The risks of nicotine 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.

Dosage adjustment of concomitant medications may be necessary. (See drug interactions.)

Please see brief summary of prescribing information on an adjacent page. (nicotine transdermal system)

Round-the-Clock Relief From Physiologic Nicotine Craving

\* As seen in an 8-week study. NICODERM should be used with caution, if at all, in patients during the immediate postmyocardial infarction period, in patients with life-threatening arrhythmias, and in patients with severe or worsening angina pectors. (See Precautions.)

#### Brief Summary of Prescribing Inform

. mation as of January 1992 NICODERM®

#### (nicotine transdormal system)

Systemic delivery of 21, 14, or 7 mg/day over 24 hours Caution: Federal law prohibits dispensing without prescription.

Caution: Federal law prohibits dispensing without prescription. **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 nutlitayered rectangular film containing nicotine as the active agent. For the three doeses the composition per unit area is identical. Proceeding from the visible surface toward the surface attached to the skin are (1) an occlusive backing (polyethylenealuminum/polyester/ethylene-vinyl acetate copolymer); (2) a drug reservoir containing nicotine (in an ethylene-vinyl acetate copolymer matrix); (3) a rate-controlling membrane (polyethylene); (4) a 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

INCORENT FOR SAME USAGE NICODERM treatment is indicated as an aid to smoking cessation for the relief of nicotine withdrawal symptoms. NICODERM reatment 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.

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

#### WARNINGS

WARNINGS Nicotine from any source can be toxic and addictive. Smoking causes lung cancer, heart disease, and emphysema and may adversely affect the fetus and the pregnant woman. For any smoker, with or without concornitant disease or pregnancy, the risk of nicotine replacement in a smoking-cessation program should be weighed against the hazard of continued smoking while using NICODERM systems and the likelihood of achieving ces-sation of smoking without nicotine replacement.

Satori of Showing which income representation. **Premanacy 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 setal 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 smoking the preparation (see FIELDU (UNS)). Therefore pregnant smoking should be encouraged to attempt cossistion using educa-tional and behavioral intervations before using planmachelogical approaches. It NICODERM systems are used during pregnancy, or it the patient becomes pregnant while using HICODERM systems, the patient should be apprised of the potential bazard to the fetus.

Satery Nota Concerning Children The amounts of nicotine that are tolerated by adult smokers can produce symptoms of poisoning and could prove fatal if the NiCDDERM 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 NICDDERM systems out of the reach of children and pets.

NICODERM systems out of the reach of children and pets. **PRCAURTONS** The patient should be urged to.stop smoking completely when initiating NICODERM therap (see DDSAGE AND ADMINISTRATION). Patients should be informed that if they continue to smoke while using NICODERM systems, they may experience adverse effects due to peak nicotine levels higher than those expenenced from smoking alone. If there is a clinically significant increase in cardiovascular or other effects attributable to nicotine, the NICODERM dose should be reduced or NICODERM treatment discontinued (see WARNINGS). Physicians should anticipate that concomitant medications may need dosape adjustment (see Drug Interactions). The use of NICODERM systems beyond 3 months by patients who stop smoking should be larmful and addicting. Aliente Reactine

harmful and addicting. Allersik Reactions In a 6-wek, open-label, dermal imitation and sensitization study of NICODERM systems, 7 of 230 patients exhibited infinite synthema at 24 hours after application. Upon rechai-lenge, 4 patients exhibited mills to moderate contract allergy, Patients with ordinact sensiti-zation stouid be caritoned that a serious reaction could occur from exposure to other income-containing products or smoking. In the efficacy trails, erythema infolwing 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 promity discontinue the use of NICODERM systems and contact their physicians, it they experience severe or persistent local skin reactions (eg, severe erythema, prurhus, or edema) at the site of application or a generalized skin reaction (eg) unificanta holes, or generalized reach). Patients using NICODERM theragy concurrently with other transdermal products may schibt local reactions at both application sites. Reactions were seen in 2 of 7 patients using concurniant Estaderm<sup>6</sup> (estadiol transdermal system) in clinical traiss. In sach patients, use of one or both systems may have to be discontinued. Still: Discase

Skin 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).

Irmating for patients with some skin disorders (atopic or eczematous dermatins). <u>Cardiopracular or Perinheral Vascular Desases</u> The risks of nicotine replacement in patients with certain cardiovascular and peripheral vascular diseases should be weighed against the benefits of including nicotine replacement in a smoking-cessalion program for them. Specifically, patients with cornary heat disease (history of myocardial infarction and/or angina pectors), 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.

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 patients with coronary artery disease (see CLINICAL STUDIES). One patient on NICODERM 21mg/day, two on NICODERM 14 mg/day, and eight on placebo discontinued treatment due to advarse events.

Adverse events. NICODERM therapy did not affect angina frequency or the appearance of arrhythmias on

Notes motions in these patient requiring on requiring on the appendice or an input these of Notes motions in these patients hould not be used in patients during the immediate post-movantial infaction period, patients with serious arrhythmias, and patients with severe or worsening angina pectoris. Renal or Hearth's insufficiency The pharmacokinetics of nicotine have not been studied in the elderity or in patients with

The plantacularities of includie have not been sourced in the entering on in plantacularities of includies and the plantacularities of includies and the plantacularities of includies and that its total system clearance is dependent on liver blood flow, some influence of hepatic impairment on drug kinetics (reduced clearance) should be avincipated. Only severe renal impairment would be expected to affect the clearance of nicotine or its metabolites from the circulation (see Pharmacokinetics).

Endocrine Diseases NICODERM therapy should be used with caution in patients with hyperthyroidism, pheochromocytoma, or insulin-dependent diabetes, since nicotine causes the release of catecholamines by the adternal medulia.

Pecic Liker Disease Nicotine delays healing in peptic ulcer disease: therefore, NICODERM therapy should be used with cattion in patients with active peptic ulcers and only when the benefits of including nicotine replacement in a smoking-cessabon program outweigh the risks.

Accelerated Hypertension Niccine therapy constitutes a risk factor for development of malignant hypertension in patients with accelerated hypertension; 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 outweigh the risks.

Trainerminin at a sindwing reason in program outweight die risks. Information at Patienet A patient instruction booklet is included in the package of NICODERM systems dispensed to the patient. The instruction sheet contains important information and instructions on how to properly use and dispose of NICODERM systems. Patients should be encouraged to ask questions of the physician and pharmacist. Patients must be advised to keep both used and unused systems out of the reach of children and pets.

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.	

Cercinceenesis. Mutagenesis. Impairment of Fertility Nicotine itself does not appear to be a carcinogen in laboratory animals. However, nicotine and its metabolites increased the incidences of humors in the cheek pouches of hamsters and forestomach of F344 rats, respectively, when given in combination with humor initiators. One study, which could not be replicated, suggested that cotinine, the primary metabolite of nicotine, may cause hymphoreticular sarcoma in the large intestime n rats

In rats. Nicotine and cotinine were not mutagenic in the Ames Salmonella test. Nicotine induced repairable DNA damage in an *£. coli* test system. Nicotine was shown to be genotoxic in a test system using Chinese hamster orvary 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 restation

Inclusive states and a state of the state of

May commute to surve. **Tertopopolicity 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). **Heman Studies:** Nicotine teratogenicity has not been studied in humans except as a component of cigarette smoke (each cigarette smoked delivers about 1 mg of nicotine). It has not been possible to conclude whether cigarette smoking is teratogenic to humans. It has not been possible to conclude whether cigarette smoking is teratogenic to humans.

It has not been possible to conclude whether cigarette smoking is teratogenic to humans. **Animal Studies:** A nicobine bolus (up to 2 mg/kg) to pregnant rhesus monkeys caused acidosis, hypercarbia, and hypotension (fetal and matemal concentrations were about 20 times those achieved after smoking 1 cigarette is 5 minutes). Fetal breathing movements were reduced in the tetal lamb after intravenous injection of 0.25 mg/kg nicotine to the ewe (equivalent to smoking 1 cigarette every 20 seconds for 5 minutes). Uterine blood flow was reduced about 30% after infusion of 0.1 mg/kg/min micotine for 20 minutes).

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

#### Labor and Dolivery The NICODERM sys

The NICODERM system 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.

The income on a mother or the fetus during labor are unknown. Lise in Nurshieg Hothers 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 assess thely into breast milk, the milk to plasma ratio averages 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 kowest at birth. The nicotine concentra-tions in milk can be expected to be lower with NICODERM therapy, when used as directed, than with cigarette smoking, as maternal plasma nicotine concentrations are generally reduced with nicotine replacement. The nix of exposure of the infant to nicotine from NICODERM therapy shole or in combination with orther (base smoke exposure and contamination of oreast milk with other components of tobacco smoke) and from NICODERM therapy alone or in combination with continued smoking. Pediatric lise

Pediatric lise NICODERM therapy is not recommended for use in children, because the safety and effectiveness of NICODERM therapy in children and adolescents who smoke have not been evaluated.

INCODERM therapy appeared to be as effective in this age group as in younger smokers. However, asthenia, various body aches, and dizziness occurred slightly more often in patients over 60 years of age. Geriatric Lise Fifty-six patien

Patients offer or years or equi- **AUTERSE FLACTONIS** 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 inicidences 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 do not attempt to loarning the cause of the symptom. **Decical Adversa treats** The most common adverse event associated with topical nicotine is a short-lived ery-thema, pruntus, and/or burning at the application site, which was seen at least once in 4% of patients on the NICODERM system in the clinical triats. 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 hypersansitivity (contact sensi-tization) occurred in 2% of patients on NICODERM systems (see PRECAUTIONS, Allergic Reartions)

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: Diarthea', toyspepsia Meetity, Testh Disenfers: Dry mouth Massalexaletal System: Artiralgiat, myalgia Nervous System: Anormal drams', insomnia (23%), nervousness\* Stin and Appendages: Sweating\* Stin and Appendix 3-monony Frequencies for 21 mg/day system \* Reported in 3% to 3% of patients t Reported in 1% to 3% of patients Ummarked if reported in c1% of patients Causal Relationship UNKNOWN Adverse events reported in C1% of patients Adverse events reported in C1% ODEENN- and placebo-treated patients at about the same frequency in clinical trials are listed below. The clinical significance of the association between NICODERM systems and these events is unknown, but they are reported as setting information for the clinical. between NICODERM systems and these events is unknown, but they alerting information for the clinician. Bedry as a Whole: Asthenia', back pain', chest paint, pain' Digestive System: Asthenia', back pain', constipation', nausea', vomiting t Nervous System: Dizzness', headache (29%), paresthesiat Respiratory System: Cough increased', pharyngitis', sinusitis' Stia and Appendages: Tash' Special Senses: Taste perversion' Urogenital System: Dysmenorrhea Frequencies for 21 mg/day systems "Reported in 3% to 9% of patients Reported in 1% to 3% of patients Ummarked frequenties in 4% of patients DRUG ABUSE AND DEPENDENCE/TREATMENT OF OVERDOSE er information, please see Full Prescribing

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

Prescribing Information as of January 1992

#### nidb0192a



# INTRODUCING NEW

20 mg tablets

(isosorbide mononitrate)

# A NEW NITRATE FOR ANGINA PREVENTION\*

# **Predictable pharmacokinetics**

Effective and well tolerated

Unique dosing regimen avoids tolerance and rebound



To maintain antianginal efficacy and to avoid tolerance and rebound. the recommended dosing schedule of 20 mg, twice daily, given 7 hours apart (with a 17-hour dose-free interval),† must be followed carefully.\*

Ismo is not recommended for use in aborting acute anginal episodes. As with other long-acting nitrates, ismo is not recommended in patients with acute myocardial infarction (MI) or congestive heart failure (CHF). Paradoxical bradycardia and increased angina pectoris may accompany ismo-induced hypotension. Long-acting nitrates may aggravate angina caused by hypertrophic cardiomyopathy. The most common side effect, headache, may be resolved with mild analgesics. There are no data that suggest this dose-free interval is appropriate with any other lond-acting nitrate.

long-acting nitrate. The dose-free interval sufficient to avoid tolerance to isosorbide mononitrate is not completely defined



Please see brief summary of prescribing information on adjacent page.

#### Smo (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 matabolite of isosorbide dimitrate; 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 dysfunction, and in the elderly.

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

absent non-the body for several nous is then antianglinat encacy resolute. The drug-free interval sufficient to avoid blorance 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 recom-mended in threse patients. It Ismo is used in these patients, careful clinical or hemodynamic monitoring is required to avoid the hazards of hypotension and tachycardia.

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

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

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

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

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

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

\*Some individuals discontinued for multiple reasons

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

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

Overdosage The ill effects of overdosage are generally related to the ability of Ismo to induce vasodilation, venous pooling, reduced cardiac output and hypotension. Symptoms may include increased intracranial pressure, with any or all of persistent throbbing headache, confusion, and moderate fever; vertigo, palpita-tions; visual disturbances; nausea and vomiting (possibly with colic and even bloody diarrhea); syncope (especially with upright posture); air hunger and dyspinea, 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 lluid vol-ume. Use of arterial vasoconstrictors (eg. epinephrine) is likely to do more harm than good. In patients with renal disease or CHF, treatment of Ismo overdose may be difficult and require invasive monitoring.

Methemoglobinemia has occurred in patients receiving other organic nitrates, and probably could occur as a side effect of Ismo. There are case reports of significant methemoglobinemia in association with moderate overdoses of organic nitrates. None of the affected patients had been thought to be unusually susceptible. Suspect the diagnosis in patients who exhibit signs of impaired oxygen delivery despite adequate cardiac output and adequate arterial p0<sub>2</sub>. Classically, methemoglobinemia lobod is chocolate brown, without color change on exposure to air. The treatment of choice for methemoglobinemia is methylene blue, 1-2 mg/kg intramenousle. intravenously

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

Well-controlled studies have shown that tolerance to issue that a wolded 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 initrates suggest that no dosing regimen should be expected to provide more than 12 hours of continuous antianginal efficacy per day.

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

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

#### A-H-ROBINS





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CHOOSE

Crunch a carrot. Snack on strawberries. In the fight to eliminate cancer, some of the best kept secret weapons are right behind your refrigerator door. Look for foods low in fat, high in fiber, and rich in Vitamins A and C. Choosing your weapon is a matter of habit. Fruit instead of fat. Mustard instead of mayo on that midnight sandwich. For a more comprehensive list, call the American Cancer Society at

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and turn your refrigerator into an arsenal of great tasting weapons.

#### **THERE'S NOTHING MIGHTIER** THAN THE SWORD.

Adv. #60233

16

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# A STEP BEYOND ...



# FRSTINA POTENT NEW CLASS

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# A broad range of clinical indications Consistent clinical efficacy<sup>1</sup> at the end of treatment in the mild to moderate adult infections you see most often



#### Secondary bacterial infection of acute bronchitis

Acute bacterial exacerbations of

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

# 93%

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

N=) 54% cured 03) 39% improved



65% cured 32% improved

0

cured improved Pneu<mark>mon</mark>ia

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

# Acu<mark>te maxillary sinusitis</mark>

Due to S. pneumoniae, H. influenzae (non- $\beta$ -lactamase-producing strains only), and M. catarrhalis (including  $\beta$ -lactamase-producing strains). Note: In a patient population with significant numbers of  $\beta$ -lactamase-producing organisms, loracarbet's clinical cure and bacteriological eradication rates were somewhat less than those observed with a product containing a  $\beta$ lactamase inhibitor. Lorabid's decreased potential for toxicity compared to products containing  $\beta$ -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.

(=) 87% cured 7% 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.

N=) 84% cured 201) 6% improved



Uncomplicated skin and skin structure infections

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

(N=) 67% cured (137) 26% improved

See brief summary of prescribing information on adjacent page

Coming soon in a suspension





#### 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 designated microorganisms. Secondary Bacterial Infection of Acute Bronchitis caused by Streptococcus lated microorganisms. **dary Bacterial Infection of Acute Bronchitis** caused by Streptococcus

pneumoniae, Haemophilus influenzae (including β-lactamase-producing strains), or Moraxella (Branhamella) catarrhalis (including β-lactamaseo strains)

strains), or Morazella (Branhamelia) catarrhalis (including β-lactamase-producing strains).
 Acute Bacterial Exacerbations of Chronic Bronchitis caused by S. pneumoniae, H. influenzae (including β-lactamase-producing strains).
 Pneumonia caused by S. pneumoniae or H. influenzae (non-β-lactamase-producing strains).
 Otifita Madla\* caused by S. pneumoniae, H. influenzae (including β-lactamase-producing strains).
 Otifita Madla\* caused by S. pneumoniae, H. influenzae (including β-lactamase-producing strains).
 Otifita Madla\* caused by S. pneumoniae, H. influenzae (including β-lactamase-producing strains).
 Otifita Madla\* caused by S. pneumoniae, H. influenzae (non-β-lactamase-producing strains).
 Acute Maxillary Sinusitis\* caused by S. pneumoniae, H. influenzae (non-β-lactamase-producing strains).
 \*In a patient population with significant numbers of β-lactamase-producing strains).
 \*In a patient population with significant numbers of β-lactamase-producing strains).
 \*In a patient population with significant numbers of β-lactamase-producing strains).
 \*In a patient population with significant numbers of β-lactamase-producing strains).
 \*In a patient population with significant numbers of β-lactamase-producing strains).
 \*In a patient population with significant numbers of β-lactamase-producing strains of the common microbes in a given geographic area should be taken into account when considering the use of an antimicrobial (see Clinical Studies section).
 Pharyngitis and Tonsilitits caused by S. pyogenes. (The usual drug of choice in the traatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever, is pencilillin administered by the intramuscular route. Lorabid is generally effective in the readication of S. pyogenes from the asopharynx; however, data estabilshing the efficacy of Lorabid is peneral

pyogenes from the nasopharynx; however, data establishing the efficacy of Lorabid in the subsequent prevention of rheumatic fever are not available at present

Uncomplicated Skin and Skin Structure Infections caused by Staphylococcus aureus (including penicillinase-producing strains) or S. pyogenes. Abscesses should be surgically drained as clinically indicated. Uncomplicated Urinary Tract Infections (cystitis) caused by Escherichia coli

on Complicate Operating the dimetrities (cysticity) caused by esciencing cou-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 Pyelonephritis caused by E. coli. \*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 antibio-

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

Precaulions: 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

Loracarbef should be given cautiously to patients receiving diuretics concurre

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 loracarber.

about an 80% increase in the AUC for ioracarbet. 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 geriatric patients who received the usual recommended adult doses in clinical studies, efficacy and safety were comparable to results in nongeriatric adult adiates.

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 <u>Patients</u> The incidence of the following adverse events was less than 1%, except as

ot

Retwise noted: **Gastrointestinal:** Diarrhea, 4.1%; nausea, 1.9%; vomiting, 1.4%; dominal pain, 1.4%; and anorexia. **Hypersensitivity:** Skin rashes (1.2%), urticaria, pruritus, and erythema ulterana at

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

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

and eosin Nepartie: Transient elevations in SGPT, SGOT, and alkaline phosphatase. Renal: Transient elevations in BUN and creatinine. Carcliousseular System: Vascolitatation. Genitourinary: Vaginitis (1.3%), vaginal moniliasis (1.1%).

Gentrournary: vaginitis (1.3%), vaginal floringsis (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 (6.8%) vs 3.6%), 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%); rhinitis (6.3% vs. 1.6%); rash (2.9% vs. 0.7%).

0.4%); thinitis (6.3% vs 1.6%); rash (2.9% vs 0.7%). <u>B-Lactam Antimicrobial Class Labeling:</u> Although not observed in Lorabid clinical trials, the following have been reported in patients treated with g-lactam antibiotics: <u>Adverse Reactions</u>—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. <u>Altered Laboratory Tests</u>—Increased prothrombin time, positive direct Compte<sup>1</sup> else Laegated (10 H agnotypone) and neutronenia. Coombs' test, elevated LDH, pancytopenia, and neutropenia.

Overdosage: Hemodialysis has been shown to be effective in hastening the elimination of loracarbef 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)		
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 Sinusitis (See Clinical Studies and Indi	200 q12h 400 q12h ications and Usage fo	10 10 r further
information.)		
Uncomplicated Skin and Skin Structure Infections	200 q12h	7
Uncomplicated cystitis (See Clinical Studies and Indi information.)	200 q24h ications and Usage fo	7 r further
Uncomplicated pyelonephritis	400 q12h	14
infants and Children (6 mos to 2	yrs)	
Acute Otitis Media*	30 mg/kg/day q12h	10
(See Clinical Studies and Indi	cations and Usage for	r further
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:**

Loncarb Studies: Loncarb (L) vs β-Lactamase Inhibitor (C) in Acute Ottilis Media (US) Efficacy: A study of acute ottils media performed in a population with a significant incidence of β-lactamase-producing organisms compared loncarabe with a β-lactamase inhibitor. Using very strict evaluability and microbiologic/clinical response criteria at the 10- to 16-day posttherapy tollow-up, the following presumptive bacterial eradication/clinical cure outcomes (success rates) were obtained:

Pathogen	% Due to Pathogen (N = 204)	Success Rate
S. pneumoniae	42.6%	L equivalent to C
H. influenzae	30.4%	L9% less than C
M. catarrhalis	20.6%	L 19% less than C
S. pyogenes	6.4%	L equivalent to C
Overall	100.0%	L 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 loracarbef

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

\*Primarily in the diaper area in young children.

Loracarbel (L) vs Amoxicillin (A) in Acute Ottitis Media (Europe) Efficacy: A study of acute otitis media performed in a population with a lower incidence of *B*-lactamase-producing organisms than that usually seen in US trials compared loracarbe to amoxicillin. Using very strict evaluability and microbiologic/clinical 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%	L14% greater than A
M. catarrhalis	15.8%	L 31% greater than A
S. pyogenes	3.4%	Lequivalent to A
Overall	100.0%	Lequivalent 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 *B*-lactamase-producing organisms than that usually seen in US trials compared loracarbef with doxycycline. Using very strict evaluability (sinus-puncture) criteria and microbiologi/critical response criteria at the 1- to 2-week posttherapy follow-up, the following presumptive herefraile arginations/one (success crates) were obtained:

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

Loracarbef (L) vs Celacior (C) in Uncomplicated Cystilis Study (US) Efficacy: A study of cystilis compared loracarbef with celacion: 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:

Pathog	en	% Due to Pathogen (N = 186)	Eradication Rate
E. coli		77.4%	L 4% greater than C (L = 80%)
Other n	najor bacteriaceae	12.5%	L equivalent to C
S. sapi	ophyticus	3.8%	L equivalent to C

Loracarbef (L) vs Quinolone (Q) in Uncomplicated Cystitis (Europe) Efficacy: A study of cystitis compared loracarbef with an oral quinolone. 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:

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)

#### For the many faces of mild hypertension



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

- Effective 24-hour control<sup>2</sup>
- Single-agent efficacy
- Well tolerated
- No adverse effects on total cholesterol, plasma glucose levels, renal function, or serum electrolytes<sup>3</sup>

\*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 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

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 I.V. verapamil (or digitalis). Because of this risk, oral verapamil is contraindicated in such patients. AV block may occur (2nd- and 3rd-degree, 0.8%). Development of marked 1st-degree block or progression to 2nd- or 3rd-degree block requires reduction in dosage or, rarely, discontinuation and institution of appropriate therapy. Sinus bradycardia, 2nd-degree AV block, sinus arrest, pulmonary edema and/or severe hypoten-sion were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated with verapamil.

with vergamil. **Precautions:** Vergamil 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. Vergamil 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 vergamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenergic blockers and vergamil may result in additive negative effects on heart rate, atrioventricular conduction and/or cardiac contractility; there have been reports of excessive bradycardia and AV block, including complete heart block. The risks of such combined therapy may outweigh the benefits. The combination should be used only with caution and close monitoring. Decreased metoprolol and propranolol clearance may occur when either drug is administered concomitantly with vergamil. A variable effect has been seen with combined use of atenolol. Chonic vergamil treatment can increase serum digoxin levels by 50% to 75% during the first week of therapy, which can result in digitalis toxicity. In patients with hepatic cirthosis, vergamil may reduce total body clearance and extraenal clearance of digitoxin. The digoxin dose should be reduced when vergamil is given, and the patient carefully monitored. Vergamil 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. 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 Llvingstone; 1987;94-100. 3. Midtbø KA. Effects of long-term verapamil therapy on serum lipids and other metabolic parameters. Am J Caridol. 1990;66:131-151. 4. Fagher B, Henningsen N, Hulthén 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. Messerli FH, Garavagila 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 carbamazepine concentrations during combined use. Rifampin may reduce verapamil bioavailability. Phenobarbital may increase verapamil clearance. Verapamil may increase serum levels of cyclosporin. Verapamil may increase verapamil clearance. Verapamil may increase serum levels of cyclosporin. Verapamil may inbit the clearance and increase the 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 administered to rats for 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.

verapamil use. Adverse Reactions: Constipation (7.3%), dizziness (3.3%), nausea (2.7%), hypotension (2.5%), headache (2.2%), edema (1.9%), CHF, pulmonary edema (1.8%), fatigue (1.7%), dyspnea (1.4%), bradycardia: HR  $\leq$  50/min (1.4%), AV block: total 1°,2°,3° (1.2%), 2° and 3° (0.8%), rash (1.2%), flushing (0.6%), elevated liver enzymes, reversible non-obstructive paralytic ileus. The following reactions, reported in 1.0% or less of patients, occurred under conditions where a causal relationship is uncertain: angina pectoris, atrioventricular dissociation, chest pain, claudi-cation, myocardial infarction, palpitations, purpura (vasculitis), syncope, diarthea, dry mouth, gastrointestinal distress, gingival hyperplasia, ecchymosis or bruising, cerebrovascular accident, confusion, equilibrum disorders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somnolence, arthralgia and rash, exanthema, hair loss, hyperkeratosis, macules, sweating, urticaria, Stevens-Johnson syndrome, erythema multiforme, blurred vision, ymecomas-tia, galactorrhea/hyperprolactinemia, increased urination, spotty menstruation, impotence. 2/13/92 + P92CA7196V

2/13/92 · P92CA7196V

G.D. Searle & Co Medical & Scient Searte Pari e, IL 6007





#### Levonorgestrel 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 trown tablets containing 0.050 mg levonorgestrel with 0.030 mg ethinyl estradici; 5 white tablets containing 0.075 mg levonorgestrel with 0.040 mg ethinyl estradici; 10 light-yellow tablets containing 0.125 mg levonorgestrel with 0.030 mg ethinyl estradici (7 light-green tablets containing liner ingredients are included in the 28-day regimen) — Triphasic regimen. Indications and Usage — TIPHASIL® is indicated for the prevention of pregnancy in women who elect to use oral contraceptives (0.05) as a method of contraception.

oral contraceptives (USs) as a memoio of contraception. Contraindications—OCs should not be used in women with any of the following: 1. Thrombophiebitis or thromboembolic disorders. 2. A past history of deep-vein thrombophiebitis or thromboembolic disorders. 3. Cerebral-vascular or coronary-artery disease. 4. Known or suspected carcinome of the treast. 5. Endometrial carcinoma or other known or suspected estimation repeated as the undangoed abnormal genital bleeding, 7. Cholestatic jaundice of pregnancy or jaundice with prior pill use. 8. Hepatic adenomas or carcinomas. 9. Known or suspected pregnancy

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 should be strongly advised not to smoke.

Use of OCs is associated with increased risks of serious conditions including myocardial infarction, thrombo-

testudgets inter dester of present statutes are associated with increase block pressure articlesase. Use OCs with caution in women with cardiovascular disease risk factors. THROMBOLMBOLISM. Increased risk of thermothoembolic and thrombotic disease associated with OC use is well established. In case control studies relative risk of users compared to non-users was 3 for first episode of superficial venous thrombosis, 4 to 11 for deep-vein thromboembolic assection studies relative risk was somewhat lower, about 3 for new cases and about 4.5 for new cases requiring hospitalization. Thromboembolic disease is stopped. A 2- to 4-fold increase in relative risk of postoperative thromboembolic complications has been reported with OCs. Relative risk of venous thromboesis in women with predisposing conditions. It heats that the relative risk was somewhat lower, about 3 for new cases and about 4.5 for new cases requiring hospitalization. Thromboembolic disease risk due to OCs is not heated to length of use and disappears after pill use is is stopped. A 2- to 4-fold increase in relative risk of postoperative thromboembolic complications has been reported with OCs. Relative risk of venous thromboesis in women with predisposing conditions is twice that of women without such conditions. It reasible, discontinue OCs at least 4 weeks prior to and for 2 weeks after elective surgery of a type associated with increased risk of thromboembolics and during and following prolonged immobilization. CEREBHOVASCULAR DISEASES. OCs increase relative and attributable risks of cerebrovascular events (thrombolic and hemorthagic strokes) in general, risk is gratest among older (~ 35 yeas), hypertensive women who smoke. Hypertension is a risk factor for users and nonusers, for both types of strokes, while smoking interacts to increase hemorthagic strokes in relates the stroke of (~ 35 yeas), hypertensive women who smoke. Hypertension is a risk factor for users and nonusers, for both types of strokes, while smoking interacts to i

Interacts to increase hemorrhagic stroke risk. DOSE-RELATED RISK OF VASCULAR DISEASE FROM OCS. A positive association has been observed between amount of estropen and progestogen in OCs and vascular disease risk. A decline in serum high density lipoproteins (HDL) is reported with many progestational agents. Serum HDL decline is associated with increased incidence of ischemic heart disease. Because estrogens increase HDL cholesterol, net effect depends on balance achieved between doese of estrogen and progestogen and nature and absolute amount of progestogen used. Consider amount of both hormones in the choice of an OC.

The dosage regimen prescribed should contain the least amount of estrogen and progestogen compatible with a low failure rate and individual patient needs. Start new acceptors on preparations containing less than 50 mcg of

NW nature rate and instruction particular processing and the strongen. PERSISTENCE OF RISK OF VASCULAR DISEASE. Two studies have shown persistence of vascular disease risk for ever-users of OCs. In a U.S. study, MI risk 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 Great Britain, the risk of developing cerebrovascular disease persisted for at least 6 years after OCs stopped, although excess risk was very small. Both studies used OC formulations with 50 micrograms or higher of extronme.

Stopped, although excess risk was very small. Both studies used OC formulations with 50th Corporation of the optimization optimization of the optimization optimizatio

formulation. 3. Carcinoma of the Reproductive Organs — Numerous epidemiological studies have looked at the incidence of breast, endometrial, ovarian and cenvical 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 first 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 long-term use. A few studies show a slightly increased relative risk of developing breast cancer, athough 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 intraepithelial neoplasia in some populations of women. However, controversy continues about the extent to which such findings may be due to differences in sexual behavior 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.

revaluurship has not been established. 4. Hepatic 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.

British studies have shown an increased risk of hepatocellular carcinoma in long-term (> 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 Lesions — 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 lesions, undertake appropriate diagnostic and therapeutic measures immediately.
6. Oral-Contractive Use Before or During Farly Programory — Extensive exploitentiological studies revealed no increased risk of birth defects when OCs used prior to prepriancy Studies do not suggest a teratogenie effect, particularly insofar as cardiac anomalies and limb reduction defects are concerned, when taken inadvertently during early pregnancy to treat threatened or habitual abortion. Rule out pregnancy If two consecutive periods missed before continuing OC is as: If patient thas not adhered to prescribed schedule, consider pregnancy at time of first missead period. Discontinue OC if pregnancy confirmed.
7. Galibladder Disease — Earlier studies reported an increased lifetime relative risk of developing galibladder disease among OC users may be minimal, which may be related to use of formulations with lower hormonal estrogen and progestogen doses.

progestogen doses

progestogen coses: 8. Carbohydrate and Lipid Metabolic Effects — OCs cause glucose intolerance in a significant percentage of users. OCs with greater than 75 μg of estrogen cause hyperinsullinism: lower estrogen doses cause less glucose intolerance. 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 fasting blood glucose.

In apparent effect of nasting due of purcose. A small proportion of women will have persistent hypertriglyceridemia while on OCs. Changes in serum triglycerides and lipoprotein 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 if significant blod pressure elevation occurs. For most women, elevated blod 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 exacertation of migralme, or if new pattern of headache (i.e. recurrent, persistent, severe) develops. 11. *Bleeding Imgularities* — 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 treakthrough bleeding, as with any abnormal vagina 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

The special when such a condition was pre-existent. Proceedings and the such a condition was pre-existent. Provide Learnination and Follow Up – A complete medical history and physical examination should be taken prior to initiation or reinstitution of OCs and at least annually during use. Physical exams should include special reference to blood pressure, breasts, abdomen and pelvic organs, including cervical cytology, and relevand latoratory tests. In case of undiagnosed, persistent or recurrent athormal vaginal bleeding, conduct appropriate diagnostic measures to rule out malignancy. Monitor women with strong family history of breast cancer or who have breast nobiles with particular care. 2. *Lipid Disorders* — Follow women being treated for hyperlipidemias closely if they elect to use OCs. Some progestogens may elevate LDL levels and may render control of hyperlipidemias more difficult. (See Warnings) 3. *Live Franction* — Discontine OC II fundice develops. Steroid hormones may be poorly metabolized in patients with impaired liver function. 4. *Fluid Retention* — OCs may cause some degree of fluid retention. Prescribe with caution, and only with careful monitoring, in patients with conditions possibly apgravated by fluid retention. 5. *Emolitanal Disorders* — If significant depression occurs stop medication 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 degree. 6. *Contact Lenses* — Contact-lens wearers who develop visual changes or changes in lens tolerance should be assessed by an ophthalmotogist. 7. *Drug Interactions* — Reduced efficacy and increased incidence and through bleeding and menstrual irregularities are associated with concomitant ritampin use. A similar association though less marked, is suggested with barthurates, hervybutazone, phenytoin sodum, and possibly with reisorbhin, appicillin and tetracyclines 8. *Interactions* — Reduced effi

#### 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); thrombophiebitis; arterial thromboembolism; pulmonary embolism; myocardial infarction; cerebral hemorrhage; cerebral thrombosis; hypertension; gallbladder disease; hepatic adenomas or benign liver tumors.

There is evidence of an association between the following conditions and OC use, although additional

Determined transmission of the second state of the se



11/15/90 CI 3421-6 4/9/90 CI 3428-6

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.



Worldwide Leadership in Female Healthcare

# **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

#### Excellent patient acceptance.

In 12 years of clinical experience, nausea, sedation and constipation have rarely been reported.<sup>1</sup>

COMPARATIVE PHARMACOLOGY OF TWO ANALGESICS					
	Constipation	Respiratory Depression	Sedation	Emesis	Physical Dependence
HYDROCODONE		x	12.7%		x
OXYCODONE	XX	XX	XX	XX	XX

Blank space indicates that no such activity has been reported. Table adapted from Facts and Comparisons 1991 and Catalano RB. The medical approach to management of pain caused by cancer. Semin. Oncol. 1975; 2: 379-92 and Reuler JB, et. al. The chronic pain syndrome: misconceptions and management. Ann. Intern. Med. 1980 588-96.

# The heritage of VICODIN,\* over a billion doses prescribed.<sup>2</sup>

- VICODIN ES provides greater central and peripheral action than other hydrocodone/acetaminophen combinations.
- · Four to six hours of extra strength pain relief from a single dose
- The 14th most frequently prescribed medication in America<sup>2</sup>



# Tablet for tablet, the most potent analgesic you can phone in.

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

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

# Maintain control of your patient's therapy.

Specify Do not substitute

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

# It's your prescription not a suggestion.

Hordcordon sharp USAGE: For the relief of moderate to moderately severe pair. CONTRAINDICATIONS: Hypersensitivity to acetaminophen or hydrocodone. WARNINGS: Respiratory Operession: A thigh doess or in sensitive patients, mydrocodone severe reactions which may obscure the clinical course of patients with head injurys of the intracranal pressure. Furthermore, narrotics produce adverse reactions which may obscure the clinical course of patients with head injurys of the intracranal pressure. Furthermore, narrotics produce adverse reactions which may obscure the clinical course of patients with head injurys of the intracranal pressure. Furthermore, narrotics produce adverse reactions which may obscure the clinical course of patients with adverse to may obscure the integration of narrotics may obscure the integration of narrotics may obscure the adverse reactions which may obscure the clinical course of patients with adverse to renal function. Typothypotidism, Addison's disease, postalic hypertrophy or urehal stricture. Cough Reffex: Hydrocodone preparations and intracranal pressors. The test of MAO inhibitors or trictic antidepressants with hydrocodone preparations and pressors on the exist opostal stream of the antidepressants including adorbal concomitantly with VCODIN/VCODIN ES Tables as evented in human may course adverse reactions which may obscure the test. Notre radiengenic fiftes: Pregnant worten, VCODIN/VCODIN ES Tables as our excerted in human mile adverse reactions in unam mile adverse reactions in unama mile adverse reactions in unam



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# **A MIGRAINE DILEMMA**

#### for the Specialty of the '90st

"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.<sup>1,2</sup> 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 disability<sup>3</sup>... 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.

PHARMACEUTICA

#### 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. JAMA. January 1992; 267:64-69 4. Prevalence of chronic migraine headaches-United States, 1980-1989. MMWR. May 1991, 40:331, 337-338. 5. Data on file, Glaxo Inc.

#### ERENEX PHARMACEUTICALS

DIVISION OF GLAXO INC. Research Triangle Park, NC 27709

IMX175 Printed in USA June 1992

# Unique dual mechanism of action

Controls hypertension through a combination of mild diuresis and vasodilatation<sup>1,2</sup>

Gradually reduces both systolic and diastolic blood pressures<sup>3,4</sup>

# 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

Please see brief summary of prescribing information below.

#### LOZOL® (indapamide) 2.5 mg tablets **BRIEF SUMMARY**

INDICATIONS AND USAGE: L020L (indapamide) is indicated for the treatment of hypertension, alone or in combination with other antihypertensive drups, and for the treatment of sait and fluid retention associated with congestive heart failure. Usage in Preparancy: See PRECAUTIONS.

CONTRAINDICATIONS: Anuria, hypersensitivity to indepamide or other sulfonamidederived drugs

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

PRECAUTIONS: Perform serum electrolyte determinations at appropriate intervals PHECAUTIONS: Perform serum electroryte determinations at appropriate mervans, especially in patients who are vaniting excessively or receiving parentral fluids, in patients subject to electrolyte imbalance, or in patients on a salt-restricted diet. In addition, patients should be observed for clinical signs of fluid or electrolyte imbalance, such as hyponaternia, hypochiorenic aklaidiss, or hypokalernia. The risk of hypokalernia secondary to diuresis and natriuresis is increased with larger doese, with the discussion of the same enclosed in early the discussion of the same enclosed and t hypokalemia secondary to diuresis and nativuresis is increased with larger doces, with brick diuresis, with severe cirrhoxis, and with concomitant use of corticosteroids or ACTH. Interference with adequate oral intake of electrolytes will also contribute to hypokalemia. Hypokalemia can sensitize or exaggerate the response of the heart to the tooc effects of digitals, such as increased verticular initiality. Diutional hyponatremia may occur in dematous patients, appropriate retainment is usually water restriction. In actual sait depletion, appropriate regularement is the treatment of choice. Chloride deficit is usually mild, not requiring specific treatment except in extraordinary circumstances (liver, rend disease). Hyperuncientia may cocur, and frank gout may be precipitated in certain patients receiving indapamide. Serum concentrations of unic acid should be monitored periodically.

periodically. Use with caution in patients with severe renal disease; consider withholding of

Use this call the second secon be monitored routinely during treatment with indapamide

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

DRUG INTERACTIONS: L020L may add to or potentiate the action of other anthypertensive drugs. The anthypertensive effect of the drug may be enhanced in the postsympathectomized patient. Indeparatie may decrease arterial responsiveness to norepinephrine, but this does not preclude the use of norepinephrine. In mouse and rail filterime carcinogenicity studies, there were no significant differences in the incidence of tumors between the indepartiel-treated animals and the control groups

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

nursng. ADVERSE REACTIONS: Most adverse effects have been mild and transient. From Phase II placebo-controlled studies and long-term controlled clinical trials, adverse reactions with  $\geq$  5% cumulative incidence: headache, dizziness, fatigue, weakness, loss of energy, heatray, tiredness or malaise, muscle cramps or spasm or numbness of the extremities, nervousness, tension, anviety, irritability or agitation; < 5% cumulative incidence: lightheadedness, drowsness, vertigo, insomnia, depression, biurred vision, constpation, nause, vontinting, diarthea, gastric irritation, addominal pain or cramps, ancrexa, orthostatic hypotension, premature ventricular contractions, remuta head heat analitations: pain or cramps, anorexia, orthostatic hypotension, premature ventricular contractions, irregular heart beat, palptations, trequency of urination, nocturia, polyuria, rash, hives, pruntus, vascultis, impotence or reduced liado, ininorrhae, flushing, hyperuricemia, hyperylycemia, hyponatremia, hypochloremia, increase in serum BUN or creatinne, glycosuria, weight loss, dry mouth, tinging of extremities. Hypokalemia with concomitant clinical signs or symptoms occurred in 3% of patients receiving indapamide 2.5 mg q.d. and 7% of patients receiving indapamide 5 mg o.d. In long-term controlled clinical trials comparing the hypokalemic effects of diayl doses indapamide and hydrochlorothiazide, however, 47% of patients receiving indapamide 2.5 mg, 72% of patients receiving indapamide 5 mg, and 44% of patients receiving hydrochlorothiazide, nowever, 47% of patients receiving 11 taken during the studyl below 3.5 mEq/L. On the indapamide 2.5 mg group, over 50% of those patients returned to normal serum potassium values without intervention. Other adverse reactions reported with anthypertensive/diuretics are intervention. Other adverse reactions reported with antihypertensive/diuretics are



intrahepatic cholestatic jaundice, sialadenitis, xanthopsia, photosensitivity, purpura, bulious eruptions, Stevens-Johnson syndrome, necrotizing anglitis, fever, respiratory distress (including pneumonitis), anaphylactic reactions, agranulocytosis, leukopenia, thrombocytopenia, aplastic anemia.

CUTION: Feed (U.S.A.) any prohibits dispensing without prescription. Keep tightly 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 (Join 1983)(8):published (9):9:4-2. Willson PR, Kem DC: Indapamide. In: Messerii FH, ed. Cardiovascular Drug Therapy. Philadelpha: W.B. Saunders Co. 1990;348-356. 3. Minnar A, Zambrowski JJ, Coppolari T. The antihipertensive action of indapamide. Results of a French millicenter study of 2144 ambulant patients. Postgrad Med J 1981;57(Supp 12):60-63. 4. Data on Tile, Rhône-Poulenc Pourer Pharmaceulicas Inc. 5. Abodo C-B: The efficacy and tolerance of Indapamide in essential hypertension: A multi-centre study in 981 patients. *Curr Med* Res Opin 1985;9(7):444-499. 6. Beling S, Vukivuch AN, Neiss ES, et al. Long-term experience with indapamide. Am Heart J 1983;10(6), 1rad 12):28-282. 7. Scalation: A Galloone F, Guintol F, et al. Clinical investigation on long-term effects of indapamide patients with sesential hypertension. *Curr Ther Res* 1984;45(1):172. 174. 9. Horgan JH, O'Donovan A, Teo KK. Echocardioraphic revisuation of left partie-tructuar function in patients showing an antihypertensive and biochemical response to indapamide. *Postgrad Med* J 1981;57(Suppl 2):64-67.

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By ignoring the problem, you could raise not only your blood pressure but your risk of heart attack and stroke as well. And once that happens, your number could be up for good. To learn more, contact the American Heart Association, 7272 Greenville Avenue, Box 45, Dallas, TX 75231-4596.

You can help prevent heart disease and stroke. We can tell you how.



# 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.



SYNTEX

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#### NAPROSYN (NAPROXEN) 500 mg tabl

Brief Summary: Contrainforcellinger, Patients who have had allergic reactions to NAPPROSYN, ANAPPROX or ANAPPROX DS or in whom aspirin or other NSAIDS induce the synchrome of asthma, inhinits, and nasal polyse. Because anaphylactic reactions usually occur in patients with a history of such reactions, question patients for automa-before starting therapy. If such symptoms occur, discontinue the drog, Warnings: Serious Gi livoicity such as beleding, ulceration, and perforation can occur at any time, with or without warning in about 2-4%. of patients treated for one year. Inform patients abusence of previous Gi tractic symptoms: In clinical traits, symp-boccur in taper GI usien's group beleding in such patients about the signs and/or symptoms of serious Gi toxicity and was tapps to take if they occur. Studies have not identified any subset of patients not a risk of developing peptic ulceration, and bleeding in about 2-4%. of patients traited for one year. Inform patients bout the signs and/or symptoms of serious Gi toxicity and what subset and in the social traits of the social series and other risk factors known to be associated with peptic ulcer disease, such as been associated with necessor tike. Ederity 6, agents sci, have seem to tolerate ulceration or bleeding less well than others and worst spontaneous reports of tail Gi events are in this population. In considering the use of relatively large doses (within the recom-mended doseage range), sufficient benefit should be anticipated to offset the potential increased risk of Gi toxicity. Presentions: DO NAT PROXEM NOIDAN SINCE THEY BOTH CIRCULATE IN PLASM AS THE NAPROXEM ANIONA AUGE INCLEMENT ANIONA AUGE ANIONA CONTRACTICATIONA AUGE ANIONA SEGNALING ANIONA AUGE ANIONA AS THE NAPROXEM ANIONA AUGE Interstitis and contrast the dray be ratient with continue therapy. Elevations of SGPT or SGOT NAT PROXEM ANIONA AUGE ANIONA AUGE ANIONA AUGE ANIONA AUGE ANIONA AS THE NAPROXEM ANIONA AUGE ANIONA AUGE ANIONA AUGE ANIONA AS THE NAPROXEM AUGE ANIONA AUGE ANIONA AUGE ANI

Incidence of reported reaction 3%-9%. Where unmarked, incidence less than 3%. US. patent nos. 3,904,662, 3,998,966 and others. e1991 Syntex Puerto Rico, Inc. Rev. 39 September 1990

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# DISPOSIONAL STATES OF THE DISPOSION OF T

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

# 

\* 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.

STAT **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 the Pficer Inc. New York, NY. 2. Baldwin DR, Wise R, Ar draws JM, Ashby JP, Han bourne D. Azithromycin concentrations at the stres of pulmonary infection. Eur Respir J. 1990;3:886-890;3; Girard AE, Cimochowski CR, Faiella JA. Correlation of increased authoromycin levels with phagocyte infitration into situs of infection. [Abstract 762]. Thirtieth Interscience Conference on Antimicrobial Agents and Chemotherapy, 1990;4; Retsems J, Bergeron J, Girard D, Wilssen W, Schelky W, Girard A. Preferential

#### ZITHROMAX<sup>TM</sup> (azithromycin) CAPSULES BRIEF SUMMARY

BRIEF SUMMART INDICATIONS AND USAGE ZITHROMAX<sup>TM</sup> (authromycin) is indicated for the treatment of individuals TE years of age and older with mild to moderate infecti (pneumonia: see WARNINGS) caused by susceptible strains of the designated microorganisms in the specific conditions listed be

#### Lower Respiratory Tract

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

Community-acquired oneutrionia of mild severity due to Streptococcus pneumoniae or Haemophilus influenzae in patients appropriate for nt oral the

Ident call therapy. Activity of the second : Azithre

#### **Upper Respiratory Tract**

Upper Respiratory Tract Steptococcal phanequisizionalities — As an alternative to first line therapy of acute phanynghiz/Ionsilities due to Streptococcus pyogenes occurring in individuals who cannot use first line therapy. Note: Pencific in its the suul angle of chare in the treatment of Steptococcus pyogenes infections and the prophysics of rheumatic fever. ZTHROMAX<sup>M</sup> is often reflective in the erabication of susceptible strains of Steptococcus pyogenes from the raspoparynx. Because some strains are reasisten to ZTHROMAX<sup>M</sup> susceptibility tests should be performed when patients are treated with ZTHROMAX<sup>M</sup>. Data establishing efficacy of arithmenycin in subsequent provention of rheumatic fever are not available.

#### Skin and Skin Structure

nicated skin and skin structure infections due to Stantwiscoccus aureus. Strentococcus pyonenes or Strentococcus analactive

Uncomplicated sum and sum antenanes Abscesses usually require surgical drainage Sexually Transmitted Diseases Non-gonococcal urethritis and carvicitis due to Chlamydie trachomatis ZTHRIDNAXY, with the incommended does: should not be relied upon to treat gonorthee or syphilis. Antimicrobial agents used in high does for short periods of time to treat roop-gonococcal urethritis may make or delay the symptoms of incolating gonomeans or syphilis. All patients with sexually-transmitted urethritis or carvicitis should have a serologic test for syphilis and appropriate cultures for gonomhea without at the sime of diagnosis. Appropriate antimicrobial therapy and follow-up tests for these diseases should be initiated if infection without at the sime of diagnosis. Appropriate antimicrobial therapy and follow-up tests for these diseases should be initiated if infection

is commed. Appropriate culture and sunceptibility tests should be performed before treatment to determine the causative organism and its sunceptibility to arithromycin. Therapy with ZITHROMAX<sup>IM</sup> may be initiated before results of these tests are known, once the results become available, antimicrobial therapy should be adjusted accordingly.

#### CONTRAINDICATIONS

ZITHROMAX<sup>TM</sup> is contraindicated in patients with known flyp omycin, erythromycin, or any macrolide antibiotic

 Control
 <t

patients with nosocomially acquired infections, patients with known or suspected bacteremia, patients requiring hospitalization, elderty 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).

Participation of the second state of the seco

Castronum autoba. PRECAUTIONS General: Because anthromyon is principally eliminated via the liver, caution should be exercised when actifromyon is administered to patients with impaired hepatic function. There are no data regarding anthromyon usage in patients with renal impairment, thus caution should be exercised when prescribing anthromyon in these patients. The following adverse event has not been reported in clinical traits with arithromyon, an azalide. However, it has been reported with machinalite products: ventricular anthromyon and the provide and torsades de pointes, in individuals with prolonged QT intervals.

Information for Patients: Patients should be cautioned to take this medication at least one hour prior to a meet or at least two hours after a meet. This medication should not be taken with food. Patients should also be cautioned not to take aluminum- and magnesium-conta

ning antacids and azithromycin si Drug Interactions: Aluminum- and magnesium-containing antacidu reduce the peak serum levels (rate) but not the AUC (extent) of

althromycin absorption Administration of cimeticline (800 mg) two hours prior to authromycin had no effect on authromycin absorption

ral non-infected thighs. [Abstract A-63]. 91st General ted mouse thighs as compared to contrala-Meeting of the American Society for Microbiology, 1991 S. Gladue RP. Bright GM, Isaacson RE, Newborg MF. In vitro and in vivo uptake of anthromycin (CP-62,993) by phagocytic cells: possible mechanism of delivery and release at sites of infection. Antimicr Agents Chemother, 1999;33:277-282.

**ONCE DAILY FOR 5 DAYS** 

AZITHROM

Day 1-

2 3 4 250-mg

5

Anthromycin did not effect the plasma levels or pharmacokinetics of theophylline administered as a single intravenous dose. The effect of anthromycin on the plasma levels or pharmacokinetics of theophylline administered in multiple doser resulting in throapeutic steady tatle level of theophylline is not known. However, concurrent use of macrolide; and heophylline has been associated with increases in the serum concentrations of theophylline. Therefore, until further data are available, prudent medical practice dictates careful monitoring of plasma theophylline levels in platents receiving authorizing and theophylline lavels. The distribution of the partice dictates careful monitoring of plasma theophylline levels in platents receiving authorizing and before the single dose of warfarin. However, prudent medical practice dictates careful monitoring of entertherholic lines in all enterties to train single dose of warfarin. However, prudent medical practice dictates careful monitoring of entertherholic lines in all enterties to train single dose of warfarin. However, prudent medical practice dictates careful monitoring of entertherholic lines in all enterther to train the throaching. Concurrent use of emergedise

careful monitoring of profit-robin time in all patients treated with any process of the memory process, protect process process and any process of the proce patients is advised.

Diotxin -elevated digoxin levels

Lingtom—emotion option reveat. Ergonamine or dihydroergotamine—acute ergot toxicity characterized by severe peripheral vasospasm and dysesthesa Trazolam—decrease the clearance of triazolam and thus may increase the pharmacologic effect of triazolam. Drugs metabolized by the cytochrome Pago system—elevations of serum carbamazepine, cyclosporine, hexobarbital, an ine hexobarbital and phenytoin

#### Laboratory Test Interactions: There are no re ed laboratory test interactions

Laboratory Test Interestions: There are on reported laboratory test interactions: Carcinogenesis, Matagenesis, Impairment of Fertility: (ong term studies in namels have not been performed to evaluate carcinogene potential. Automuch has shown no mutagene potential in standard laboratory tests, mouse hymphoma assay, human lymphocynic distogenic assay, and mouse home marrow classogenic assay. Pregnancy: Transgonic Effects, Pregnancy Classogenic studies have been performed in rats and mice at doses up to moderately maternally house does levels (i.e., 200 mg/kg/day). These doses, based on a mg/m basis, are estimated to be 4 and 2 bines, respectively, in human daily does 0500 mg. No evidence of majorities details or ham to the fosts doe to authornovici was food. There are, however, no adequate and well-controlled studies in pregnant women. Because animal repoduction studies are not always predictive of human response, authornovici no should be used during pregnancy only if clearly needed. Nursing Mothers: It is not known whether authornovici is excreted in human milk. Because many drugs are excreted in human milk. Testing Mothers: It is not known whether authornovici is excreted in human milk. Because many drugs are excreted in human milk. Because should be used during the authornovici is excreted in human milk. Beriatric Use: Statey and effectiveness in older violunteeri (19 dev) were similar to those in younger volumers (19 dev) years did for the 5 dev therapeutic regimen. Dosage adjustment does not acpeare to be necessary lox older patients with normal renal and beautic function receiving theatment with the dosage regiment. **ENEXE ELECIONE** 

#### **ADVERSE REACTIONS**

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 multiple dose clinical trials discontinued 21THR0MAX<sup>M</sup> lashtnorwgenic threapy because of treatment-related side effects. Most of the side effects leading to discontinuous on were related to the gatertointestinal fract, e.g., nausea, vontining, danthea, or abdominal pain. Parc, but potentially serious side effects, were angioedema II case] and chelestatic jaundice

#### Clinical

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

related to the gustrointestinal system with diarrhea/loose stools (5%), neuses (3%), and abdominal pain (3%) being the most frequently reported. No other side effects occurred in patients on the multiple-dose regimen of ZITHROMAX<sup>IM</sup> with a frequency greater than 1%. Side effects that occurred with a frequency of 1% or less included the following. Cardiovascular: Palpitations, chest pain. Gastrointestinal: Dyspopul, flatulence, vomiting, melena, and cholestatic jaundice. Genitourinary: Monila, vagoint, and nephytic. Nervous System: Diziness, headsche, vertigo, and somolence. General Fraigue. Allergie: Rash, photosensitivity, and anglobdema.

Single 1-grain dose regimen. Overall, the most common side effects in patients receiving a single-dose regimen of 1 grain of ZITHROMAX<sup>IM</sup> 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-gram dosing regimen of ZITHROMAX<sup>reg</sup> with a frequency of 1% or greater included diarthea/loose stools (7%), nausee (5%), vomiting (2%), and vaginitis (2%). Laboratory Abnormalities. Significant abnormalities (irrespective of drug relationship) occurring during the clinical thats were reported as for the second

With an incidence of 1-2% elevated serum creatine phosphokinase, potassium, ALT (SGPT), GGT, and AST (SGDT) With an incidence of less than 1%: leukopenia, neutropenia, depresed platilet court, elevated serum aikaline phosphatase, bilivibin, BUN, creatinine, blood glucose, LDH, and phosphate. When follow yeas provided, transpis in laboratory tests appeared to be reversible. In multiple-dose clinical trials involving more than 3000 patients, 3 patients discontinued therapy because of treatment-related liver

enzyme abnormalities and 1 ber

#### DOSAGE AND ADMINISTRATION (See INDICATIONS AND USAGE) ZITHROMAX™ (azithromycin) sh

2/THROMAX\*\* landhromycini should be given at least. I hour before or 2 hours after a meel. The recommended dose of 2/THROMAX\*\* for the treatment of individuals 16 years of age and older with mild to moderate acute bacterial subscratchistors of hornic obstructure pullnowary disease, percensing, hapkyngits/nonsilis (as second-line themany), and uncomplicated skin and skin structure infections due to the indicated organisms in: 500 mg as a single dose on the first day followed by 250 mg once daily on days? 2 through 5 hor a total dose of 15 years of 21HROMAX\*\* The recommended dose of 2THROMAX\*\* for the treatment of

non-genecoccal urethritis and cervicitis due to C. trachomatis is a single 1 gram (1000 mg) dose of ZITHROMAX<sup>IM</sup>.

More detailed professional infor mation available on request.

Issued February 1992







#### Lopressor<sup>®</sup>

#### metoprolol tartrate USP

#### Tablets

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

#### Hypertension

rypersension Lopressor tablets are indicated for the treatment of hypertension. They may be used alone or in combination with other antitypertensive agents. **Anglina Pectoris** Lopressor is indicated in the long-term treatment of angina

pectoris.

pectoris. Myocardial 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). CONTRAINISTRATIONS

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

Lopresor is contraindicated in patients with a heart rate < 45 beats/min; second- and third-degree heart block; significant first-degree heart block (P-R interval 2 0.24 sec); systolic blood pressure < 100 mmHg; or moderate-to-severe cardiac failure (see WARNINGS).

#### WARNINGS

WARNINGS Hypertension 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 myocardial contractility and precipitating more severe failure. 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 conduction.

conduction. In Patients Without a History of Cardiac Failure: Continued depression of the myocardium with beta-blocking agents over a period 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 diabilitation and diuratic therapy. I concessor should be uithdrawing digitalization and diuretic therapy, Lopressor should be withdrawn

Ischemic Heart Disease: Following abrupt cessation of therapy with certain beta-blocking agents, exacerbations of angina pectors 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 temporarily, and other measures appropriate for the management of unstable angina should be taken. Patients should be warned against interruption or discontinuation of therapy without the physician's advice. Because coronary artery disease is common and may be unrecognized, it may be prudent not to discontinue Lopressor therapy abruptity even in patients treated only for Ischemic Heart Disease: Following abrupt cessation of therapy abruptly even in patients treated only for hypertension.

Insperiorision. Branchaspastic Diseases: PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD, IN GENERAL, NOT RECEIVE BETA BLOCKERS. Because of the relative beta, selectivity, however, Lopressor may be used with caution in patients with bronchospastic disease who do not respond to, or cannot tolerate, other antihyperimistive tradiment. Since beta selectivity is not absolute, a beta, stimulating agent should be administered concomfrantly, and the lowest possible dose of Lopressor should be used. In these circumstances it would be prudent initially to administer Lopressor in smaller doses three times daily, instead of usery doses thore times doily to avoid the higher plasma levels associated with the longer dosing interval. (See DDSAGE AND ADMINISTRATION.) Major Surgery: The necessity or desirability of withorawing beta-blocking thrapy prior to major surgery is controversial; the impaired ability of the heart to respond to reflex adrenetic stimuli may augment the risks of general anesthesia and surgical procedures. Lopressor, like other beta blockers, is a competitive inhibitor of

procedures. 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., dobutamine 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. **Disbetus and Hypogycennia:** Lopressor should be used with caution in diabetic patients if a beta-blocking agent is required. Beta blockers may mask tachycardia occurring with hypogycemia, but other manifestations such as dizziness and sweating may not be significantly affected.

other mannestations such as duziness and swearing may not be significantly affected. *Thyroloxicosis:* Beta-adrenergic blockade may mask certain clinical signs (e.g., tachycardia) of hyperthyroldism. Patients suspected of developing thyrotoxicosis should be managed carefully to avoid abrupt withdrawal of beta blockade, which might

Carding to avoid study windowal of beau blockade, which may precipitate a thyroid storm. **Hyrocardial Infarction 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 cardiac failure. During transment with Lorgescore the hemodynamic status of

During treatment with Lopressor, the hemodynamic status of the patient should be carefully monitored. If heart failure occurs or

persists despite appropriate treatment, Lopressor should be discontinued. Bradycardia: Lopressor produces a decrease in sinus heart rate in

Bradycardia: 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 atropine is not successful, Lopressor should be discontinued, and cautious administration of isoproterenol or installation of a cardiac pagemaier should be considered.

administration of isoproterents or installation of a Cardiac pacemaker should be considered. **AV Block:** Lopressor slows AV conduction and may produce significant first- (P-R interval  $\ge 0.26$  sec), second-, or third-degree heart block. Acute myocardial infarction also produces heart block. If heart block occurs, Lopressor should be discontinued and atropine (0.25-0.5 mg) should be administered intravenously. If therement with block incurs, and therement is more therefore the interview.

treatment with atropine is not successful, cautious administration of isoproterenol or installation of a cardiac pacemaker should be considered.

considered. *Hypotension*: 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 counterpulsation, or other treatment modalities should be instituted. If hypotension is associated with sinus bradycardia or AV block, treatment should be directed at reversing these (see above)

AV DICE, Dealinem should be intered a revealing index (see above). 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 eatent becating the second second second second second second second becating the second bronchospastic disease. Because it is unknown to what ealent beta, stimulating agents may exacerbate myocardial ischemia and the extent of infarction, these agents should not be used prophylactically. It 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 arthythmias. PRECAUTIONS General

#### General

Lopressor should be used with caution in patients with impaired

Lopressor should be used with caution in patients with impaired hepatic function. Information for Patients 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 physician. 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 physician or dentist before any type of surgery that he or she is taking Lopressor. Laboratory feets

Suffer y that no of she is many expression. Laboratory Tests Clinical laboratory findings may include elevated levels of serum transaminase, alkaline phosphatase, and lactate dehydrogenase. Drug Interactions

Drug Interactions Catecholamine-depleting drugs (e.g., reserpine) may have an additive effect when given with beta-blocking agents. Patients treated with Lopressor plus a catecholamine depletor should therefore be closely observed for evidence of hypotension or marked bradycardia, which may produce vertigo, syncope, or

Rained or adjustman, which may produce related by seeps, or 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 allernic reaction

unresponsive to the usual doses of epinephrine used to treat allergic reaction. Carcinogenesis, Mutagenesis, Impairment of Fertility Long-term studies in animals have been conducted to evaluate carcinogene 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 foamy macrophages in pulmonary alveoli and a slight increase in biliary hyperpiasia. 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 female 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 tomors. This 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/

mice, chromosome studies in somatic cells, a Salmonella/ mammalian-microsome mutagenicity test, 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 neonatal 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 or teratogenicity. There are no adequate and well-controlled studies in pregnant wome. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly meeted.

#### Nursing 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.

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

AUVENSE HEACTIONS Hyperfension and Angina Most adverse effects have been mild and transient. Central Nervous System: Tiredness and dizziness have occurred in about 10 of 100 patients. Depression has been reported in about 5 of 100 patients. Mental conflusion and short-term memory loss have been reported. Headache, nightmares, and insomnia have alon been reported.

have been reported. Headache, nightmares, and insomnia 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; peripheral edema; and typotension have been reported in about 1 of 100 patients. (See **CONTRAINDICATIONS**.) **Respiratory:** Wheezing (bronchospasm) and dyspnea have been reported in about 1 of 100 patients (see WARNINGS). **Castrointestinat**: Diarthea has occurred in about 5 of 100 patients. Nausea, dry mouth, gastric pain, consipation, flatulence, and heartburn have been reported in about 1 of 100 patients. **Hypersensitive Reactions:** Pruntus or rash have occurred in about 5 of 100 patients. Worsening of bosinais has also been reported. Soft 100 patients. Worsening of poriasis has also been reported. Miscellaneous: Peyronie's disease has been reported in fewer than 1 of 100,000 patients. Musculoskeletal pain, blurred vision, and

1 of 100,000 patients. Musculoskeletal pain, blurred vision, and tinnitus have also been reported. There have been rare reports of reversible alopecia, agranulocytosis, and dry eyes. Discontinuation of the drug should be considered if any such reaction is not otherwise explicable. The oculomucoculaneous syndrome associated with the beta blocker practolol has not been reported with Lopressor. **Myocardial Infarction Cantral Nervous Syndrom:** Tiredness has been reported in about 1 of 100 patients. Vertigo, sleep disturbances, hallucinations, headache, diztiness, visual disturbances, conflusion, and reduced libido have also been reported, but a drug relationship is not clear. **Cardiovascular:** In the randomized comparison of Lopressor and placebo described in the CLINICAL PHARMACDLOGY section, the following adverse reactions were reported: Lopressor Placebo

Hypotension	Lopressor 27.4%	Placebo 23.2%
(systolic BP < 90 mmHg) Bradycardia (beat rate < 40 beats/min)	15.9%	6.7%
Second- or third-degree beart block	4.7%	4.7%
First-degree	5.3%	1.9%

heart block (P-R ≥ 0.26 sec) Respiratory: Dyspnea of pulmonary origin has been reported in fewer than 1 of 100 patients. Gestrointestinal Maures and the 29.6% Heart failure

Gastrointestinal: Nausea and abdominal pain have been reported

Castronintestmal: Nausea and abdominal pain have been reported in fewer than 1 of 100 patients. Dermatologic: Rash and worsened psoriasis have been reported, but a drug relationship is not clear. Miscellaneous: Unstable diabetes and claudication have been reported, but a drug relationship is not clear. Potential Adverse Reactions

Potential Adverse Reactions A variety of adverse reactions not listed above have been reported with other beta-adrenergic blocking agents and should be considered potential adverse reactions to Lopressor. *Central Nerrous 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. *Cantinus*catlar: intensification of AV block (see **ContrakinDicATIONS**).

CONTRAINDICATIONS). Hematologic: Agranulocytosis, nonthrombocytopenic purpura,

thrombocyclopenic purputs, Hypersensitive Reactions: Fever combined with aching and sore throat, laryngospasm, and respiratory distress. OVERD03AGE

Acute Toxicity Several cases of overdosage have been reported, some leading to death

Usani. Oral LD<sub>20</sub>'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.

#### Treatment

Treamon 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).

Imarcuon). On the basis of the pharmacologic actions of Lopressor, the following general measures should be employed: Elimination of the Orug: Gastric lavage should be performed. Bradycardia: Atropine should be administered. If there is no response to vagal blockade, isoproterenoi should be administered evolutionable.

cautiously. *Hypotension:* A vasopressor should be administered, e.g.,

Hypotension: A vasopressor should be administered, e.g., levarterenol or dopamine. Bronchospasm: A beta, stimulating agent and/or a theophylline derivative should be administered. Cartiae Falluer: A digitalic splocside 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. 4/2

C92-26 (Rev. 4/92)

#### Geigy

Cercicy J Division of CIBA-CEIGY Corporation Ardsley, 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

MEDICAL

TELEVISION



# American Medical Television Has Moved to CNBC

Now you can watch American Medical Television Saturday and Sunday on CNBC, the cable arm of the NBC network. The new AMT offers the physician CME programs Saturday and Sunday from 10:00 am-1:00 pm (ET). AMT also offers entertaining health and lifestyle segments for your patients from 1:00 pm-3:00 pm (ET) Saturday and Sunday. That's ten full hours of medical information every weekend! Watching AMT is an enjoyable and convenient way to earn Category I and II CME credits.

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Here's how it works:

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To find out the CNBC channel in your area, call 800 SMART-TV. Don't miss out! If CNBC is not available in your area, contact your local cable company to request CNBC programming.

American Medical Television is produced in conjunction with the American Medical Association.

#### The Program Line-up

#### **Every Saturday and Sunday on CNBC:**

#### For the Doctor

10:00 am	From the Hill
10:30 am	Medical Rounds
11:30 am	Journal Watch (Sat.)
	Milestones in Medicine (Sun.)
12:00-1:00 pm	The AMA VideoClinic Hour

#### For Your Patlents

1:00 pm	Living Well America!
1:30 pm	Health Styles
2:00 pm	Ask the Doctor
2:15 pm	Heart Healthy Cooking
2:30 pm	Living Well America! (Sat.)
	Health Styles (Sun.)

#### Every Sunday on The Discovery Channel:

#### For Your Patlents

9:00 am	Health Styles	
9:30 am	Living Well America!	
(all times are Eastern)		




When your patient says she gets cold feet...



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### **Trental**<sup>®</sup> 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 claudication 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, hypotension, and arrhythmia. Controlled trials do not show that Trental\* (pentoxifylline) causes such adverse effects more often than placebo, but, as it is a methylxanthine derivative, it is possible some individuals will experience such responses. Patients on warfarin should have more frequent monitoring of prothrombin times, while patients on warfarin 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 agregation 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 hematorit 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<sup>®</sup> (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 rec-ommended 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 sta-tistically 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 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<sup>®</sup> (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® (pentoxifylline) 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.

	· · · · · · · · · · · · · · · · · · ·	A	
INCIDENCE	(%)OF	SIDE EF	FECTS

	Controlle Tab	d-Release lets	Immediat Cap	e-Release sules
	Commercially Available		Used Only for Controlled Clinical Trials	
	Trental*	Placebo	<b>Trental</b> <sup>®</sup>	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 pentoxifylline 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<sup>®</sup> (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:

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-

while the effects of field as the continued for at least 8 weeks. Efficacy has been demonstrated 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 this lower dosage, the administration of Trental\* (pentoxifylline) should be discontinued.

Trental<sup>®</sup> REG TM HOECHST AG

Edition 7/91

#### Hoechst-Roussel Pharmaceuticals Inc. Somerville, New Jersey 08876-1258

#### Patients with intermittent claudication may report other symptoms first:

- Cold feet
- Paresthesia and numbress
- 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 years<sup>1</sup>
- Hypertensives with elevated triglyceride and depressed HDL levels

#### TRENTAL® increases pain-free walking distance and improves microcirculatory blood flow<sup>2-14\*†</sup>:

- 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<sup>‡</sup>
- 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

- Increases white cell flexibility and inhibits neutrophil adhesion and activation
- <sup>+</sup> The clinical significance, if any, of these laboratory findings has not been established.
- Therapy must be continued to sustain improvement

(R)

400 mg

 Patients on warfarin should have more frequent monitoring of prothrombin time; periodic systemic blood pressure monitoring is recommended for patients receiving concomitant antihypertensive therapy

renta Tablets t.i.d. (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.

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## THE RECOURSE



Helping overcome life's obstacles

ablets

\*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.



#### An effective arthritis treatment, helping to overcome life's obstacles

CONTRAINDICATIONS: Hypersensitivity to ANSAID, or if aspirin or any other nonsteroidal anti-inflammatory agent induces asthma, urticaria, or other allergic-type reactions. Fatal asthmatic reactions have been reported in such patients.

WARNINGS: Gastrointestinal effects: Risk of GI ulcerations, bleeding, and perforation with nonsteroidal anti-inflammatory therapy. Serious GI toxicity can occur at any time, with or without warning symptoms, during chronic treatment. The occurrence is about 1% after 3 to 6 months, 2% to 4% after a year. Patients should be informed of signs and symptoms of serious GI toxicity and what to do if it occurs. No subset of patients not at risk has been identified. Prior history of serious GI events and other risk factors of peptic ulcer disease, ga lacoholism, smoking, etc., have been associated with increased risk. The elderty and debilitated tolerate ulceration and bleeding less well. Higher doses probably carry a greater risk. GI ulceration and bleeding can occur without warning symptoms.

without warning symptoms, and chronically treated patients should be followed.

R Ansaid 100-mg tablets #60 Take as directed

PRECAUTONS: Patients with impaired renal or hepatic function: Use ANSAD and similar agents cautiously. Pharmacokinetics have not been studied in patients with decreased liver function. Renal effects: Rats develop renal apaillary necrosis at dosages equivalent to human therapeutic levels, as do monkeys given 20 to 40 times the human dose. In clinical stud-20 to 40 times the human dose. In clinical stud-ies of ANSAID, kidney function tests were done monthly, and renal effects were similar to those seen with other nonsteroidal anti-inflammatory drugs. A second lorm of renal toxicity has been seen in patients with prerenal conditions that reduce renal blood flow or blood volume. A nonreduce renal blood flow or blood volume. A non-steroidal anti-inflammatory drug may cause dose-dependent reduction in prostaglandin for-mation and precipitate overt renal decompensa-tion. Patients at greatest risk are those with impaired renal or hepatic function, heart failure, those taking diuretics, or the elderly. Drug dis-continuation usually leads to recovery. Patients at high risk on chronic treatment should have renal function monitored if they have signs or symptoms that may be consistent with mild azo-temia, eg. malaise, fatigue, loss of appetite. Occasionally, BUN and serum creatinine may be elevated without signs or symptoms. Furbipro-

terma, eg. maiase, fatigue, loss of appelle. Occasionally, BUN and serum creatinine may be devated without signs or symptoms. Flutbpro-len is excreted by the kidneys, and pharmaco-len is excreted by the kidneys, and may require a reduction of dosage to avoid accumulation of flurbiproten metabolites. Liver tests: Borderine elevations of fluer function tests may occur in up to 15% of patients, and may progress, remain unchanged, or disappear with continued treatment. Patients treated long-term who have initial hemoglobin values under 10 gidt, should have periodic hemoglobin values. Fluid retention and defama: Fluid retention and defama have been reported, so use ANSAID with caution in patients with conditions such as cardiae decompensation or hypertension. **Vision changes:** Blurred and/or diminished vision has been reported. Patients with by ecomplaints should have periodic ophilamiologic exams. **Effect on platelets and coagulation**: Platelet aggregation is inhibited and bleeding time prolonged, patients may with to discuss potential risks and likely benefits. **Drug interactions:**  *Anticoagulants*: Bleeding parameters are aflected, clinical bleeding has been reported. *Aspirin*: Flutiproten levels were 50% lower. Concurrent use is not recommended. *Beta-adrenetic blockserve* 1 marcackinetics and heart rate reduction are not affected, hypotensive effect of propranoid but not atenold was attenuated. *Cimel-dine, ranitidine*: Ginetidine causes a 13% increase in area under the flurbiproten serum concentration curve **Diversite: Teatients receiving trosemide or thaizedes should be cosely observed to make sure the desired effect is obtained. Carcinogenesis, mutagenesis, impairment of fertility: No evidence: <b>Teatogenic e** 

Arberd and be and the second and the second and the commended of use in pregnancy. Labor and belivery, mursing mothers, pediatric use: Use is not recommended. ADVERSE REACTIONS: 94% of 4123 patients dropped out of studies because of an a.d.t. Incidence >1% Gastrointestinal: Dyspepsia; diarthea; abdominal pain, "nausea; constipation, Gi bleeding, fatulence, elevated be enzymes, and vomiting, Central nervous system Haacache, "stimulation" (e.g. naviek, insonnia, reflexes nereased, tremos) and "inhibition" (e.g. annesia, asthenia, somnolence, malaise, and depression). Respiratory, and symptoms suggesting a unnay tract infection" Body as a whole: Chema Metabolic/nutritional: Body and symptoms suggesting a unnay tract infection" Body as a whole: Chema Metabolic/nutritional: Body and symptoms suggesting a unnay tract infection." Body as a whole: An endotion with the second and symptoms suggesting a unnay tract infection." Body as a whole: An endotion with the second and symptoms suggesting a unnay tract infection." Body as a whole: An endotion duritional: Body and symptoms, suggesting a unnay tract infection." Body as a whole: An endotion untersting is provide statematic and hepatitis, cholestatic and noncholestatic jaundice. Central nervous system Ataxi, cerebrox-and singenia, consulsion, paresthesia, and writching. Hematologic: Decrease in hemoglobin and hematoch on deficiency aremia. Benitourinay: Hematura and inplantent of enal function. Intersting experiments of a singenia consulsion, paresthesia, and vascolitation. Incidence, '14', **Causal relationship** *provides a whole.* Anaphytacic reactions, chills, *texe.* Metabolic/nutritional: Hyperuncena. Cardiovascular provides a whole. Anaphytacic tracking and woolidation in teidence, '14', **Causal relationship** *provides as whole.* Anaphytacic hyperventiate, checkona, and discustances, and vascolidation functional with a subarachhoid moring are Hematologic. Lymphadenopathy. Respiratory: Bronchitis, laryngtis, dyspinea, pulmay subarachhoid moring a



The Upjohn Company Kalamazoo, MI 49001





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## For the woman at risk...

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#### 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

1 ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA. 1 ESTROGENS HAVE BEEN REPORTED TO INCHRASE THE RISK OF ENDIMALITAL 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 doses. 2. ESTROGENS SHOULD NOT BE USED DURING PREGNANCY.

2: ESTRUGENS 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 later in IIE. 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

prepriat mates of the total sector of the equility and the equility of the extra sector of the extra sect

conjugated estrogens per gram. INDICATIONS AND USAGE: Moderate-to-severe vaso-motor 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 levo bene mass). Attophic vaginitis. Attophic urethritis. Hypoestrogenism due to hypogonadism, cas-tration or primary ovarian failure. PREMARIN (conjugated estrogens) Vaginal Cream is indicated in the treatment of atrophic vaginitis and kraurosis vulvae.

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)

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 neoplasia. 4. Undiagnosed abnormal genital beeding. 5. Active thrombonthelities or thromboembolic bleeding, 5. Active thrombophlebitis or thromboembolic disorders. 6. Estrogen replacement therapy has not been reported to increase the risk of thrombophlebitis and/or The provide the first of minor bog means and the information regarding women who have had previous thromboermolic disease. PREMARIN Tablets and Vaginal Cream should not be used in patients hypersensitive to their ingredients.

WARNINGS: Some studies upgets sensitive to their ingredients. 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-fold or greater than in non-users, and appears dependent on treatment duration and estrogen dose. In 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 fetal congenital reproductive tract disorders.

disorders

A 2.5-fold increase in the risk of surgically confirmed gall bladder disease in women receiving postmenopausal estrogens has been reported. Large doses of estrogen such as those used to treat prostate and breast cancer have been shown to increase the risk of non-fatal myocardial inflaction, pulmonary embolism, and thrombophiebilis 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. Blood 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 metalatases. **PRECAUTIONS:** The addition of a progestin for 7 or more days of a cycle of estrogen administration reportedly lowers the incidence of endometrial maturation and elimination of hyperplastic changes. Additional risks, such as adverse effects on carbohydrate and lipid metabolism, may be associated with the important in minimizing these adverse effects. Physical examination and a complete medical and family history should be taken prior to the initiation of

Physical examination and a complete medical and family history should be taken prior to the initiation of

PREMAR (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 retentions, such as asthma, epilepsy, migraine, and cardiac or renal dystunction, require cardiul observation. Certain patients may develop manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding and mastodynia. Pre-existing uterine leiomyomata may increase in size during estrogen use. Estrogens should be used with hypercalcemia. The following drund/barotartor, test interactions have been reported, some only with estrogen-propestin

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 hormone, as measured by T<sub>4</sub> levels determined by column or by radioimmunoassay. Free T<sub>3</sub> resin uptake is decreased, reflecting the elevated TBG; free T<sub>4</sub> concentration is unaltered.

Impaired glucose tolerance. Reduced response to metyrapone test.

Reduced serum folate concentral

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

Allo back waining. 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.

ADVERSE REACTIONS: The following have been re-ported with estrogenic therapy changes in vaginal bleed-ing pattern and abnormal withdrawal bleeding or flow, ing pattern and abnormal withdrawal bleeding or flow, breakthrough bleeding, spotting, increase in size of uter-ine fibroryomata, 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

### DOSAGE AND ADMINISTRATION: PREMARIN\* Brand of conjugated estrogens tab-lets, USP

1. Given cyclically for short-term use only. For treatment of moderate-to-severe vasomotor symptoms, atrophic vaginitis, or atrophic urethritis associated with the menopause (0.3 mg to 1.25 mg or more daily). The lowest dose that will control symptoms should be chosen and medica-tion should be discontinued as promptly as possible. Administration should be cyclic (eg, three weeks on and one week off). Attempts to discontinue or taper medication should be made at three- to six-month intervals.

should be made at three- to six-month intervals.
 Should be made at three- to six-month intervals.
 Science cyclically: Hypoestrogenism. Osteoporosis.
 Hypoestrogenism due to: Female hypogenatism — 2.5
 mg to 7.5 mg daily in divided doese for 20 days followed
 by 10 day rest period. It bleeding does not occur by the
 end of this period, the same dosage schedule is repeated. Female castration or primary ovariant failure—1.25
 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.
 Osteoprosis—0.625 mg daily. Adjust upward of estrogens Vaginal Cream
 PREMARIN® Brand of conjugated estrogens Vaginal Cream
 five overlically hor short-ferm use only. For treatment of altronhic, vaninitis or kraurosis vulvae.

Given cyclically for short-term use only for treatment of attophic vapinitis or kraurosis vulvae. The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible.

Attempts to discontinue or taper medication should be made at three- to six-month intervals

Valual 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 philored for signs of endometrial cancer and appropriate measures taken to rule out malignancy in the event 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 postmenopausal use of estrogen. N Engl J Med 1980;303:1195-1198.





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## There is only one automatic Epinephrine Injection.

For self administration in any allergic emergency...

#### EpiPen **EPĪNEPHRINE** AUTO-INJECTORS

#### Just remove safety cap and press into thigh.

Brief summary. Before prescribing, please consult package insert.
Brown and the second sec

supportive therapy only and is not a replacement or supstitute in international international of the support of hospital care. CONTRAINDICATIONS: There are no absolute contraindications to the use of spinephrine in a life-threatening situation. WARNINGS: Epinephrine is light sensitive and should be stored in the tube provided. Store at room temperature (15-%) COS%) - GOS% - GOS%) - Do not refrigerate. Before using, check to make sure solution in Auto-Injector is not discolored. Replace the Auto-Injector if the solution is discolored or condinais a precipitale. Avoid possible inadvertent intravascular administration. Select an appropriate injection sits such as the trigh. DO NT INECT INTO BUTTOCK. Largeldy acting vasodilators can counteract the marked pressor effects of epinephrine. Epinephrine is the preferred treatment for serious allergic or other emergency

situations even though this product contains sodium metabisulfile, a suffict that may in other products cause allergic-type reactions including ana-phylacitic 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 astisfactory. The presence of a suffice in this product should not dete administration of the drug for treatment of serious allergic or other emergency situa administration of the drug for treatment of serious allergic or other emergency situa

administration of the drug for treatment of serious allergic or other emergency situa-tions. Accidental 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. EpiPer should ONLY be injected in the amenoitatical aspect of the thing. **PRECAUTIONS:** Epinephrine is ordinarily administered with extreme caution to patients who have hear disease. Use of epinephrine with drugs that may sensitize the heart to arrhythmize, e.g., diptalis, mercurial diuretics, or quinding, ordinarily is not recommended. Anginarj Bain may be induced by epinephrine in patients with coronary insufficiency. The effects of epinephrine may be potentiated by thrickling antidepressants and monoamine oxidase inhibitors. Hyperthytroid individuals, individuals with cardiovascular disease, hypertension, or diabetes, eldenty individuals, are present risk of developing adverse reactions after epinephrine administer to in apphytaxis. Therefore, patients with these conclusions, and/or any other person who might be in a position to administer EpiPen or EpiPen J, it to ablent experiencing anaphytaxis should be carethyle instructed in regions.

should be call followed in the part of the constraints and the transmitteness of the constraints and the constraint worths. Constraints and the co

used during pregnancy only a use positive constraints of the positive constraints of the constraints of the

OVERDOSAGE: Overdosage or inderetrain intravesular inderetant pressure. Faither may cause cerebral hemorrhage resulting from a sharp rise in blood pressure. Faither may also excels throm pulmonary edema because of peripheral vascular constriction together with cardiac stimulation. DOSAGE AND ADMINISTRATION: Usual enjemphirine adult dose for allergic emergencies is 0.3 mg. For pediatric use, the appropriate dosage may be 0.15 or 0.30 ing depending upon the body weight of the patient. However, the prescribing physi-cian has the option of prescribing more or less than these amounts, based on careful assessment of each individual patient and recognizing the life-timetenting nature of the reactions for which this drug is being prescribed. With severe persistant anaphy-taxis, repeat injections with an additional EpiPen Jr. Auto-Injectors are available singly or in packages of twelve.

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

#### Giter **Center Laboratories** Division of EM Industries, Inc.

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

weakness, tremor, headache apprehension, nervousness and anxiety. Cardiac arrythmia may follow administration of preshrue

OVERDOSAGE: Overdosage

# It's amazing something this big could fit through a "loophole."

80

PKR 135

The Americans with Disabilities Act has been law since July 1990. But instead of making their buses accessible, the inter-city bus companies have been making excuses. And somehow they've succeeded in getting themselves a 7-year extension before they even have to begin to comply. When it comes to a little thing like the law, size must make a big difference. *Support Easter Seals*.



## Recent evidence in CHF continues to confirm...

- Improved ejection fraction<sup>1-3</sup>
- Improved cardiac output<sup>4,5</sup>
- Improved exercise tolerance<sup>2,3,6</sup>

...in patients with normal sinus rhythm.

IN THE EARLY TREATMENT OF CHF

(digoxin) Tablets 105 to 10 125 (digoxin) Tablets 100 to 10 Unique inotropic support for the failing heart.

Please see brief summary of prescribing information on the following page.



#### Improved ejection fraction<sup>1-3</sup>

In a large, double-blind, placebo-controlled study of patients in normal sinus rhythm, digoxin produced a significant increase in ejection fraction (P<.01) but captopril did not.1 This improvement results from enhanced myocardial contractile performance and better emptying of the left ventricle.





Adapted from the Captopril-Digoxin Multicenter Research Group study. NS = not significant.

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:

CONTRAINDICATIONS: (1) ventricular fibrillation; (2) an untoward effect requiring discontinuation of other digitalis prepara-tions, and (3) a hypersensitivity or altergy to digoxin. WARNINGS: The use of digoxin for the treatment of obesity is dangerous since it may cause potentially fatal arrhythmias. Ancerxia, nausea, vomiting and arrhythmias may be indications of digitalis locicity. If so digoxin is should be temporarily withheld when possible. Patients with renal insufficiency requires smaller than usual maintenance doses of digoxin. Heart failure accompanying acute glomerulonephritis requires extreme care in digitalization and careful monitoring. Relatively low loading and maintenance doses and concomitant use of anthypertensive drugs may be necessary. Digoxin should be discontinued as soon as possible in this set-ting. Patients with severe carditis are especially sensitive to digoxin-induced rightm 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 positions must treatmently and lasts longer in natients, with renal impair.

The point cause of accidental poisoning in children.
PRECAUTIONS: Digoxin toxicity develops more trequently and lasts longer in patients with renal impair-ment because of the decreased excertion of digoxin. Normal polassium and magnesium levels should be main-imment because of the decreased excertion of digoxin. Normal polassium and magnesium levels should be main-tained in patients treated with digoxin. Calcium, patiental with a administered rapidly by the intra-venous route, may produce serious arrivythmias in digitalized patients. Hypercalcemia predisposes the patient to digitalis toxicity, whereas hypocalcemia can cause digoxin to become ineffective. Patients with acute myocar-dial infarction or severe pulmonary disease may be unusually sensitive to digoxin-induced triythm disturbances. Atrial arrhythmias associated with hypermetabolic states are particularly resistant to digoxin treatment. Large does of digoxin are not recommended as the only treatment of these arrhythmias. If large doeses 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 venticular arrhythmias. If digitalis toxicity is suspected, elective cardioversion to avoid induction of venticular arrhythmias. It bicks: may progress to advanced or complete heart block when given digoxin, patients with sinus node disease. Digoxin may cause rapid ventricular rates and ventricular ibinitial block in patients with sourt sourcid disease. Digoxin may cause rapid ventricular rates and ventricular ibinitial block in patients with boilth-Patients with diopatin, hypertrophic subartic tensos (HSS), digoxin should be were car-diac talues in this setting. Patients with chronic constrictive pericarditis may late to eduging with the art laive from arryloid heart disease or constrictive cardiomyopathies respond poorly to digoxin. Stowing of the heart rate by digoxin in some patients with chronic constrict

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

Laboratory Tests: Serum electrolyles and renal function should be assessed periodically. **Drug Interactions:** Potassium-depleting corticosteroids and *diwelics* may be major contributing factors to digitalis locity. *Calcium*, tarticularly 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 inadviate digoxin by bacterial metabolism in the lower intes-tine, so that digitalis intoxication may result. *Propantheline* and *diphenoxylate*, by decreasing gut mollility, may increase digoxin absorption. *Aniacids, kaolin-peclin, subasalazine, neomycin, cholestyramine,* certain *anicancer drugs* and *metocoparanide* 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

#### Improved cardiac output 4.5

LANOXIN improves cardiac output at rest as well as during exercise. Maintenance of left ventricular function was clearly demonstrated by a study in which digoxin was withdrawn and then readministered: output deteriorated during withdrawal and was restored during readministration.5

#### Improved exercise tolerance<sup>2,3,6</sup>

Digoxin improved exercise tolerance by 14% in a doubleblind, placebo-controlled study of CHF patients in normal sinus rhythm who underwent treadmill exercise testing (P<.03).<sup>2</sup> These gains were achieved in patients receiving baseline diuretics.

Also, in a large study that compared digoxin and captopril, there was no significant statistical difference between the two drugs with regard to their effects on exercise tolerance and functional class.1



#### Percent Improvement in Exercise Tolerance

#### **Unique inotropic** support for the failing heart.

the dose requirement of digoxin. Concomitant use of digoxin and sympathomimetics increases the risk of cardiac arrhythmias because both enhance ectopic pacemaker activity. Succinylcholine may cause a sud-den extrusion of potassium from muscle cells, and may thereby cause arrhythmias in digitalized patients. Although B adrenergic blockers or acticum channel blockers and digoxin may be useful in combination to control atrial librillation, 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. Pregnancy: Pregnancy: Category G. Animal reproduction studies have not 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 dose 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:

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 infroduction of the serum digown assay and improved standardization of digown tablets. Cardiac toxicity accounts for about one-hall, 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

Infants and Children: Anorexia, nausea, vomiling, 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. The Captophi-Digoxin Multicenter Research Group. Comparative effects of therapy with captophi and digoxin in patients with mild to moderate heart latture. *JAMA*: 1988;259:539-544. 2. DiBlanco R. Shabeta R. Kostuk W. Moran J. Schlant RC. Wright R. A comparison of oral milinone. digoxin, and their combination in the treatment of patients with chronic heart latture. *NEngl J Med*: 1999;320:677-683. 3. Guyatt GH. Solivan MJ, Faller EL, et al. A controlled trial of digoxin in congestive heart failure. *Ann J Cardiol*. 1988;51:371-375. 4. Ghendifthiade M. Hall V. Lakier JB, Goldstein S. Comparative hemodynamic and neurohormonal effects of intravenous captophi and digoxin and their combinations in gatients with severe heart failure. *J Am Call Cardiol*. 1989;13:134-142. 5. Annold SB. Byrd RC. Meister W. et al. Long-term digitalis therapy improves effective finant function in the antifacture. *J Am Call Cardiol*. 1989;13:134-142. 5. Annold SB. Byrd RC. Meister W. et al. Long-term digitalis therapy improves effective finant function in beart failure. *J Am Call Cardiol*. 1989;62(Suppl 1):170-175.

#### Burroughs Wellcome Co.

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LN-Y04379

## 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.





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

OVER TOACHY JOURING LINES
Period Summary:
Cantified Lines: Patients who have had allergic reactions to MAPROSY, MAPROX on MAPROX DS or in whom aspire of oolyps. Because anaphylactic mactions: susually occur in patients with a history of such reactions, cuestion patients for asthma, nasal polyps, urticaria, and hypotension associated with NADOs before starting therapy. If such suppress, cuestion patients for asthma, nasal polyps, urticaria, and hypotension associated with NADOs before starting therapy. If such suppression associated with NADOs before starting and or symptoms occur: discourts and the starting of mach patients for the formation and before starting and/or symptoms of serious G1 toxicity and has a shoult a signs and/or symptoms of serious G1 toxicity and hast steps to take if they occur. Studies have not identified any subset of patients not risk of developing perfu circarian and before, scale chart is a starting of serious G1 events and other risk action is a single starting perfusion and before the second starts of developing series within the recommended dosage range). Sufficient benefit should be anticipated to offset the poleration and the define as within the recommended dosage range). Sufficient benefit should be anticipated to offset the poleration. This occurs, discontinue the drug Warris proteinum, and explorities syndrom thas been reported. PMAPROX MINE, MINE PERSON, MAPROX MINE, MINE PERSON, MINE Incidence of reported reaction 3%-9%. SYNTEX

(NAPROXEN) 500 mg tablets

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



## Because Fungal Infections Appear In So Many Forms...

## A Form To Fit The Therapeutic Need



The MIZORAL (ketoconazole) Family of Products

**Outstanding Efficacy...In A Form That Fits** 

Please see brief summary of prescribing information on the adjacent page for specific indications for various NIZORAL forms.

world leader in antimycotic research

JANSSEN

SEN () · PHARMACEUTICA · RESEARCH FOUNDA Titusville, NJ 08560-0200

Janssen Pharmaceutica Inc. 1992

#### NIZORAL <sup>®</sup> (ketoconazole) 2% Cream

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

MICROBIOLOGY: 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 (Pityrosporum ovale) and C. tropicalis; and the organism responsible for tinea versicolor, Malassezia lurtur (Pityrosporum 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 USAGE: 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 infections

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 use.

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 neonle

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. Carcinogenesis, Mutagenesis, Impairment of Fertility: / 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 negative.

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, times the maximum recommended human oral dose). 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: It is not known whether NIZORAL<sup>®</sup> (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

ADVERSE REACTIONS: 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 irritation, pruritus and stinging. One of the patients treated with NIZORAI® Cream developed a painful allergic reaction. DOSAGE AND ADMINISTRATION: Cutaneous candidiasis, tinea cor-

poris, tinea cruris, and tinea (pityriasis) versicolor: It is recommended that NIZORAL<sup>®</sup> (ketoconazole) 2% Cream be applied once daily to cover the affected and immediate surrounding area. Clinical improvement may be seen fairly soon after treatment is begun; however, candi-dal infections and tinea cruris and corporis should be treated for two weeks in order to reduce the possibility of recurrence. Patients with leaversicolor 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, NY. 11747 Revised Nov. 1987, Feb. 1988 U.S. Patent No. 4,335,125 1P41J98G-M

#### NIZORAL<sup>®</sup> (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 PHARMACOLOGY: NIZORAL is active against clinical infections with Blastomyces dermatitidis, Candida spp., Coccidioides immitis, Histoplasma capsulatum, Paracoccidioides brasiliensis, and Phialophora spp. It is also active against Trichophyton spp., Epidermo phyton spp., and Microsporum spp. NIZORAL is active in vitro against a variety of fungi and yeast. In animal models, activity has been demonstrated against Candida spp., Blastomyces dermatitidis, Histoplasma capsulatum, Malassezia furfur, Coccidioides immitis, and Cryptococcus neoformans.

INDICATIONS AND USAGE: NIZORAL (ketoconazole) is indicated for the treatment of the following systemic fungal infections: candidiasis, chronic mucocutaneous candidiasis, oral thrush, candiduria, blastomycosis, coccidioidomycosis, histoplasmosis, chromomycosis, and para coccidioidomycosis. NIZORAL should not be used for fung because it penetrates poorly into the cerebral-spinal fluid. ngal meningitis

NIZORAL is also indicated for the treatment of patients with severe recalcitrant cutaneous dermatophyte infections who have not respond-ed to topical therapy or oral griseofulvin, or who are unable to take ariseofulvin

CONTRAINDICATIONS: NIZORAL is contraindicated in patients who

have shown hypersensitivity to the drug. WARNINGS: Hepatotxicity, primarily of the hepatocallular type, has been associated with the use of NICORAL (Refoconzele), including rare fatalities. The reported incidence of hepatotxicity 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 ketocanazole therapy in patients who developed symptomatic hepatotexicity was about 28 days, therapy in patients who evelope a symptomatic negratoxicity was alwout 26 ways. athough the range extended to as fow as 3 days. The heattic injury has usually, but not always, been reversible upon discontinuation of NIZORAL (ketoconazole) treatment. Several cases of hepatitis have been reported in children. 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 ketoconazole treatment. The drug should be discontinued if these persist, if the abnormalities worsen, or if the abnormalities become accompanied by symptoms of possible liver injury. In rare cases anaphylaxis has been reported after the first dose. Several cases

of hypersensitivity reactions including urticaria have also been reported

n 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 nossible to ascertain from the information available whether death was related to ketoconazole therapy in these patients with serious under lying disease. However, high doses of ketoconazole are known to suppress adrenal corticosteroid secretion. In female 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 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 testsoteronie once interpy mit hoberen ties been discontinued, serum testsoteronie tevels 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

In four subjects with drug-induced achlorhydria, a marked reduction in NIZORAL absorption was observed. NIZORAL requires acidity for dissolution. If concomitant antacids, anticholinergics, and H2-blockers are needed, they should be given at least two hours after NIZORAL adminis tration. In cases of achlorhydria, the patients should be instructed to dissolve each tablet in 4 ml aqueous 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 wate

Information for Patients: Patients should be instructed to report any signs and symptoms which may suggest liver dystucction so that appro-priate blochemical testing can be done. Such signs and symptoms may include unusual tatigue, anorexia, nauses and/or womiting, joundice, dark urine ar pale stook gase WARNINGS). Drug Interactions: Imidazole compounds like ketoconazole may en-barea bho existence what which at a promotibilite dure to be invultored.

hance the anticoagulant effect of coumarin-like drugs. In simultaneous treatment with imidazole drugs and coumarin drugs, the anticoagulant

effect should be carefully titrated 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 ncomitantly

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 con-comitantly receiving oral miconazole (an imidazole) and oral hypoglycemic 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 metabolism of terfenadine, resulting in an increased plasma concentration of terfenadine and a delay in the elimination of its acid metabolite. Increased plasma concentration of terfenadine 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 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 Ames Salmonella microsomal activator assay was also negative. A long term feeding study in Swiss Albino mice and in Wistar rats showed no evidence of oncogenic activity. Pregnancy: Teratogenic effects: Pregnancy Category C NIZORAL

(ketoconazole) has been shown to be teratogenic (syndactylia and oli-godactylia) 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 maternal toxicity, evidence of which also was seen at this 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.

Nonteratogenic effects: NIZOBAL has also been found to be embryotoxic in the rat when given in the diet at does 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)

It is likely that both the malformations and the embryotoxicity result-ing from the administration of NZORAL (ketoconazole) during gestation Ing from the administration of NZOFAL (Relocinate) of our gestation are a reflection of the particular sensitivity of the female rat to this drug. For example, the oral  $LD_{50}$  of NIZORAL given by gavage to the female rat is 166 mg/kg whereas in the male rat the oral  $LD_{50}$  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 chird

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

And a point of the the first desc. Several cases of hypersensitivity reactions including urticaria have also been reported. However, the most frequent adverse reactions were nausea 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, somnolence, fever and chills, photo-phobia, diarrhea, gynecomastia, impotence, thrombocytopenia, leukopenia, hemolytic anemia, and bulging fontanelles. Oligospermia has been reported in investigational studies with the drug at dosages above been reported in investigational studies with the drug at obsages above those currently approved. Although oligospermia 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 of NIZORAL. In contrast, the rare occurrences of hepatic dystunction require special attention (see WARNINGS).

Reuropsychiatric disturbances, including suicidal tendencies and severe 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.

MICROBIOLOGY: NIZORAL® (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*phytes, T. tonsurans, Microsporum canis, M. audouini, M. gypseum 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<sup>®</sup> (ketoconazole) 2% Shampoo

is indicated for the reduction of scaling due to danfulf. CONTRAINDICATIONS: NIZORAL<sup>®</sup> (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 pemanently waved hair.

Carcinogenesis, Mutagenesis, Impairment of Fertility: 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 negative. A long-term feeding study of ketoconazole in Swiss Albino mice and in Wistar rats showed no evidence of oncogenic activity

Pregnancy: Terategenic effects: Pregnancy Category C: 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: Netconazole is not detected in plasma after chronic shampooing. Nevertheless, caution should be exercised when NIZORAL<sup>®</sup> (ketoconazole) 2% Shampoo is administered to a nursing nman

Pediatric Use: Safety and effectiveness in children have not been

ADVERSE REACTIONS: In 11 double-blind trials in 264 patients using ketoconazole 2% shampoo 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-ture, scalp pustules, mild dryness of the skin, and itching. As with other shampoos, oiliness and dryness of hair and scalp have been reported. OVERDOSAGE: NIZORAL® (ketoconazole) 2% Shampoo is intended

vernuesnet: nezunaL<sup>ov</sup> (xetoconazole) 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<sup>®</sup> (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 7500001-1

7500001-M Distributed by: Janssen Pharmaceutica Inc., Titusville, NJ 08560

world leader in antimycotic research



# A Shape Of Quality

Potassium and magnesium conservation<sup>1,2</sup> with the <u>optimal ratio</u> (1.5 to1) of triamterene to hydrochlorothiazide<sup>3</sup>

®

79% of mildly hypertensive patients normalized\* within 4 weeks<sup>1†</sup>

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 Cyanamid Company. Please see adjacent page for brief summary of full Prescribing Information.



#### Effectively controls mild-to-moderate hypertension and potassium loss<sup>1</sup>

#### The Shape to Remember a-day MAX/ 25 MG

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 Economizant use with other potassium servers, or maximum and the potassium supplementation. Anuria, acute and chronic renal insufficiency, significant renal impairment. Hypersensitivity to either component or to other sulfonamide-derived drugs.

#### WARNINGS

White derived an experimental elevation of serum potassium levels (25.5 mEq/L) can occur with all potassium-conserving agents including MAXZIDE. Hyperkalemia is more likely to occur in patients with renal impairment, diabetes (even without evidence of renal impairment), or elderly or severely ill patients. Since uncorrected hyperkalemia may be fatal, serum potas 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 scrum potassium level exceeds 6.5 mEq/1, more vigorous therapy is required. Avoid MAXZIDE in diabetic patients. If used, monitor scrum 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 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 corticosteroids, 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 ligitalis (eg. increased ventricular irritability). MAXZIDE may produce an elevated blood urea nitrogen level (BUN), creatinine level, or both. dis

Elevations in BUN and creatinine levels may be more frequent in patients receiving divided dose diuretic therapy. Discontinue if azotemia increases.

Use with caution 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 blood evaluations are recommended. Hyperuricemia may occur or acute gout may be recipitated 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 lupus crythematosus by thiazides has been reported. Thiazides may add to or potentiate the action of other antihypertensive drugs. Thiazides may decrease arterial responsiveness to norepinephrine. Thiazides have also been shown to increase responsiveness to tubocurarine. Diuretics reduce renal clearance 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 (ACE) inhibitors due to a greatly increased risk of hyperkalemia. Monitor

converting enzyme (Ac.2) minimum due to a gready increased rus of ny period mail mono-serum polassium frequently. MAXZIDE may interfere with quinidine measurement. **Pregnancy Category C:** hizzides cross the placental barrier and appear in cord blood. Use in pregnancy requires weighing anticipated benefits against possible hazards, including fetal or neonatal jaundice, thrombocytopenia, pancreatitis, and possibly other adverse reactions which have occurred in theoretic.

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 containing triamterene/hydrochlorothiazide, and products containing triamterene of hydrochlorothiazide include the following:

Gastrointestinal: jaundice (intrahepatic cholestatic jaundice), pancreatitis, nausea, appetite disturbance, taste alteration, vomiting, diarrhea, constipation, anorexia, gastric irritation, disturbance, taste alteration, vomiting, diarrhea, constipation, anorexia, gastric irritation, cramping. Central Nervous System: drowsiness and fatigue, insomnia, headache, dizaness, dry mouth, depression, anxiety, vertigo, restlessness, paresthesias. Cardiovascular: tachycardia, shortness of breath and chest pain, orthostatic hypotension (may be aggravated by alcohol, barbiturates or narcotics). Renal: acute renal failure, acute interstitial nephritis, renal stones composed of trianterene in association with other calculus materials, urine discoloration. Hematologic leukopenia, agranulocytosis, thrombocytopenia, aplastic anemia, hemolytic anemia and megaloblastosis. Ophthalmic: xanthopsia, transient blurred vision. Hypersensitivitys anaphylaxis, photosensitivity, rash, utricaria, purpura, necroitizing angitis (vasculitis, cutaneous vasculitis), fever, respiratory distress including pneumonitis. Other: muscle cramps and weakness, decreased sexual performance and sialadenitis. Whenever adverse reactions are moderate to severe, theraro should be reduced or withdrawn. Altered adverse reactions are moderate to severe, therapy should be reduced or withdrawn. Altered Laboratory Findings: Serum Electrolytes: hyperkalemia, hypokalemia, hyponatremia, hypomagnesemia, hypochloremia (see WARNINGS, PRECAUTIONS). Creatinine, Blood Urea Nitrogen: Reversible elevations in BUN and serum creatinine have been observed in hypertensive patients treated with MAXZIDE Ghooses hypergyvernia, glycosuria and diabete 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

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## **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...**



\*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 acebutolol<sup>1</sup>

CARDURA lowered blood pressure with a small increase in the HDL/total cholesterol ratio (+2.4%)' in the same study.<sup>1†</sup> 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<sup>2‡</sup>

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

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%)

doxazosin mesylate) Scored Tablets 1 mg, 2 mg, 4 mg, 8 mg HYPERTENSION CONTROL FOR A NEW GENERATION.

ONCE-A-DAY



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

INUICATIONS 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 contrained in a finite of the second sec

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

WARNINGS Syncope and "First-dose" Effect: Doxazosin, like other alpha-adrenergic blocking agents, can cause marked hypotension, especially in the upright position, with syncope a other postural symptoms such as dizziness. Marked orthostalic effects other postural symptions such as duzziness, markee ornobstatic enects are most common with the first does but can also occur when there is a dosage increase, or if therapy is interrupted for more than a few days. To decrease the likelihood of excessive hypotension and syncope, it is essential that treatment be initiated with the 1 mg dose. The 2, 4, and 8 mg tablets are not for initial therapy. Dosage should then be adjusted slowly (see DOSAGE AND ADMINISTRATION section) with increases in doce avera how washs. Additional antibunetaesive anext schuld be dose every two weeks. Additional antihypertensive agents should b added with caution.

Patients being titrated with doxazosin should be cautioned 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 support to a support of the support doxazosin, seven (29%) of the subjects experienced symptomatic postural hypotension between 0.5 and 6 hours after the first dose necessitating termination of the study. In this study 2 of the normotensive subjects experienced syncope. Subsequent trials in hypertensive 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% (#660) eccured at 16 mg/day.

(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

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 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:

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 neutrophil 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 neutrophil 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 neutrophil counts on the ruled out. Two had a single low value on the last day of treatment. Two had stable, non-progressive neutrophil counts in the 1000/mm<sup>2</sup> range over periods of 20 and 40 weeks. In cases where follow-up was available the WBCs and neutrophil counts returned to normal atter discontinuation of CARDURA. No patients became symptomatic as a result of the low WBC or neutrophil counts. symptomatic as a result of the low WBC or neutrophil counts.

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 symptoms, especially at the initiation of therapy, and urged to avoid driving or hazardous tasks for 24 hours after the first does, 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 davised 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 rising from a sitting or lying position. If dizziness, lightheadedness, or palpitations are bothersome they should be to told that drowsiness or somolence can occur with dovazosin, requiring caution in people who must drive or operate heavy machinery. **Drug interactions:** 

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:

#### No

None known. Cardiac 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 to beth entre union tenetic the scene mercens with d0 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 doats of the second sec

Carcinogenesis, Mutagenesis and Impairment of Fertility: Chronic dietary administration (up to 24 months) of doxazosin mesylate at maximally tolerated concentrations (highest dose 40 mg/kg: about 50 times the maximum recommended human dose of 16 mg/60 kg) revealed nines the maximum recommon term interact over the major major by toreans no evidence of carcinogenicity in rats. There was also no evidence of carcinogenicity in a similarly conducted study (up to 18 months of dietary administration) in mice. The mouse study, however, was compromised by the failure to use a maximally tolerated dose of doxazosin.

the failure to use a maximally tolerated dose of doxazosin. Mutagenicity studies revealed no drug- or metabolite-related effects at either chromosomal or subchromosomal levels. Studies in rats showed reduced fertility in males treated with doxazosin at oral doses of 20 (but not 5 or 10) mg/kg/day, about 75 times the maximum recommended human dose. This effect was reversible within two weeks of drug withdrawal

Pregnancy Teratogenic Effects, Pregnancy Category B. Studies in rabbits and rats at daily oral doess of up to 40 and 20 mg/kg, respectively (150 and 75 times the maximum recommended daily does 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 study, however, was compromised by the failure to use a maximally study, indicate the sound of th

pregnancy only if clearly needed. Radioactivity was found to cross the placenta following oral administration of labelled doxazosin to pregnant rats. Nonteratogenic Effects. In peri-postnatal studies in rats, postnatal development at maternal doses of 40 or 50 mg/kg/day of doxazosin was delayed as evidenced by slower body weight gain and a slightly later appearance of anatomical features and reflexes.



Nursing Mothers Studies in lactating rats given a single oral dose of 1 mg/kg of [2-<sup>14</sup>C] Studies in lactating rats given a single oral loss of 1 mg/kg or [2--0]-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 effect ess in children have not been established

Penainic use Safety and effectiveness in children have not been established. 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 occurred in 49% and 40% of patients in the doxazosin and placebo groups, respectively, and led to discontinuation of %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %% of patients in each group. The major reasons for discontinuation in %, sommolence 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/forbably related) reported for patients in these studies where the prevalence rate in the doxazosin group was at least 0.5% 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 Treatment of wild hypertension Study, a randomized, piaceo-controlled that of a nutritional-hypeinic regimen along with various drug monotherapies. Arch Intern Med. 1991;151:1413-1423. 2. Lehtonen A, the Finnish Multicenter Study Group. Lowered levels of serum insulin, glucose, and cholesterol in hypertensive patients during treatment with doxazosin. *Curr Ther Res.* 1990;47:278-284.

		DOXAZOSIN (N=339)	PLACEBO (N=336)
MUSCULOSKELETAL:	Arthralgia/Arthritis 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 Gramps	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	1%	1%
	Insomnia	1%	1%
	Sexual Dysfunction	2%	1%
GASTROINTESTINAL:	Nausea	3%	4%
	Diarrhea	2%	3%
	Constipation	1%	1%
	Dyspepsia	1%	1%
	Flatulence	1%	1%
	Abdominal Pain	0%	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%

Additional adverse reactions have been reported, but these are, in general, not distinguishable from symptoms that might have occurred in the absence of exposure to doxazosin. The following adverse reactions occurred with a frequency of between 0.5% and 1%; syncope, hypoesthesia, increased sweating, agitation, increased weight. The following additional adverse reactions were reported by -0.5% of 3960 patients who received doxazosin in controlled or open, short- or long-term clinical studies, including international studies. Cardiovascular System: angina pectoris, myocardial infarction, cerebrovascular accident, Autonomic Nervous System: pallor; Metabolic: thirst, gout, hypokalemia; Hematopoietic: Nervous System: pallor; Metabolic: thirst, gout, hypokalemia; Heinatopoleic: lymphadenopathy, purpura; Reproductive System: breast pain; Skin Disorders: alopecia, dry skin, eczema; Central Nervous System: paresis, tremor, twitching, confusion, migraine, impaired concentration; Psychiatric: Special Senses: parosmia, earache, taste perversion, photophobia; abnormal lacrimation; Gastrointestina System: increased appetite, ancrexia, fecal incontinence, gastroenteritis; Respiratory; System: bronchospasm; sinusilis, couphing, pharyngitis; Urinary System: reina claculus; General Body System: hot flushes, back pain, infection, fever/rigors, decreased weight, influenza-like rumphone;

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

OVERODSAGE The oral LDso 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 AND ADMINISTRATION DOSAGE MUST BE INDIVIDUALIZED. 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 taken during this time period after the first dose and with each increase in dose. Depending on the individual patient's charding blood preserve concerned function or menument taken at and with each increase in dose. Depending on the individual patient's standing blood pressure response (based on measurements taken at 2-6 hours postdose and 24 hours postdose), dosage may then be increased to 2 mg and thereafter if necessary to 4 mg. 8 mg and 16 mg to achieve the desired reduction in blood pressure. Increases in dose beyond 4 mg increase the likelihood of excessive postural effects including syncope, 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

#### 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

onstituent, doxazosin. CARDURA® TABLETS are available as 1 mg (white), 2 mg (yellow), 4 mg CARDURA® TABLETS are available as 1 mg (MMC), see (0.2000) (orange) and 8 mg (green) scored tablets. Bottles of 100: 1 mg (NDC 0049-2760-66), 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



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January 1992

## In NIDDM, when diet alone fails, Glucotrol spells...

Please see brief summary of GLUCOTROL<sup>®</sup> (glipizide) prescribing information on next page.



When diet alone fails in non-insulin-dependent diabetes mellitus

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 which should be to

SPECIAL WARNING ON INCREASED RISK OF CARDIOVASCULAR MORTALITY: The administration of oral hypoglycemic drugs has been reported to be associated with increased cardiovascular mortality as compared to treatment with diet alone or diet plus insulin. This warning is based on the study compared to treatment with diel alone or diel plus insulin. This warning is based on the study conducted by the University Group Diabetes Program (UGDP), a long-term prospective clinical trial designed to evaluate the effectiveness of glucose-lowering drugs in preventing or delaying vascular complications in patients with non-insulin-dependent diabetes. The study involved 823 patients who were randomly assigned to one of lour treatment groups (Diabetes 19, supp. 2:747-830, 1970). UGDP reported that patients treated for 5 to 8 years with diet plus a fixed does of tolbutamide (1.5 grams per day) had a rate of cardiovascular mortality approximately  $2\frac{1}{2}$  times that of patients treated with diet alone. A significant increase in total mortality was not observed, but the use of tolbutamide was discontinued based on the increase in cardiovascular mortality, thus limiting the opportunity for the study to show an increase in mortality. study to show an increase in overall mortality. Despite controversy regarding the interpretation of these results, the findings of the UGDP study provide an adequate basis for this warning. The patient should be informed of the potential risks and advantages of GLUCOTROL and of alternative modes of therapy. Although only one drug in the sulfonylurea class (tolbutamide) was included in this study, it is prudent from a safety standpoint to consider that this warning may also apply to other oral hypoglycemic drugs in this class, in view of their close similarities in mode of action and chemical

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 sulfornytures 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 malnourished patients and those with adrenal or pitulary insufficiency are particularly the patients and the heproduce relation of the 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 catoric intake is deficient, after severe or prolonged exercise, when alcohol is ingested, or when more than one glucose-lowering drug is

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

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 dary failure should also be explained.

and secondary failure should also be explained. **Drug Interactions:** The hypoglycemic 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 ganets. In *vitro* studies indicate that GLUCOTROL binds offerently than tolbutamide and does not interact with salicylate or dicumarol. However, caution must be exercised in extrapolating these findings to the clinical situation. Certain drugs tend to produce hyperglycemia and may lead to loss of control. Including the thiraides and ober directions calcius channel blocking drugs, and isoniazid. A potential interaction between oral miconazole and oral hypogynemic agents braining to sweet buonohceming this be hen renorded. Whether this interaction as nevers with the intravenues toricit. leading to severe hypoglycernia has been reported. Whether this interaction also occurs with the intravenous, topical, or nie is not kno

Carcinogenesis, Mutagenesis, Impairment of Fertility: A 20-month study in rats and an 18-month study in mi 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

Pregnancy: Pregnancy Category C: GLUCOTROL (glipizide) was found to be mildly fetotoxic in rat reproductive studies

at all dose levels (5-50 mg/kg). This fetotoxicity has been similarly noted with other sultonylureas, such as tolbutamide and tolazamide. The effect is perinatal and believed to be directly related to the pharmacologic (hypoglycemic) action of GLUCOTROL. In studies in rats and rabbits no teratogenic effects were found. There are no adequate and well-controlled studies in pregnant women. GLUCOTROL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

This to the letus. Because recent information suggests that abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital abnormalities, many experts recommend that insulin be used during pregnancy to maintain blood glucose levels as close to normal as possible. Nonteratogenic Effects: Prolonged severe hypoglycemia has been reported in neonates born to mothers who were receiving a sulfonylurea 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 sulfonylurea drugs are known to be excreted in human milk. Insulin therapy should be

I nursing is to be continued. 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. Hypoglycemia: See PRECAUTIONS and OVERDOSAGE sections.

Gastrointestinal: Gastrointestinal disturbances, the most common, were reported with the following approximate incidence: nause and diartinea, one in 70, constipation and gastialgia, one in 100. They appear to be does-related and may disappear on division or reduction of dosage. Cholestatic jaundice may occur rately with suffortylureas: GLUCOTROL should be discontinued if this occurs.

be discontinued if this occurs. Dermatologic: Altergic skin reactions including eythema, morbilliform or maculopapular eruptions, urticaria, pruntus, 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 photoensitivity reactions have been reported with sutforylures. Hematologic: Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia, aplastic anemia, and pancytopenia have been reported with withontingenia.

ed with sulforrylureas

Metabolic: Hepatic porphyria and disulfiram-like alcohol reactions have been reported with sulforylureas. 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 have been reported with this and other sulfornylureas. Miscellaneous: Dizziness, drowsiness, and headache have each been reported in about one in fifty patients treated with the superscription of the sulface of the sulface of the superscription of the sup

Miscellaneous: Dizzness, drowsiness, and headache have each been reported in about one in fifty patients treated with GULCOTROL. They are usually transient and seldom require discontinuance of therapy. **OVERDOSAGE:** Overdosage of suifonylureas including GLUCOTROL can produce hypoglycemia. If hypoglycemic coma is diagnosed or suspected, the patient should be given a rapid intravenous injection of concentrated (50%) plucose solution. This should be followed by a continuous initiation of a more diule (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 from plasma would be prolonged in persons with inver 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 postnardial hypoglycular barrows and therefore.

dial hyperglycemia.

postprandial hyperglycemia. Initial Dose: The recommended starting dose is 5 mg before breaktast. Geriatric patients or those with liver disease may be started on 25 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 litration steps. Maintemance: Some patients may be effectively controlled on a once-a-day regimen, while others show better response with divided dosima. Total daily doses above 15 mg should ordinarily be divided. **HOW SUPPLIED:** GLUCOTROL tablets are while, dye-free, scored, diamond-shaped, and imprinted as follows: 5 mg —Pfizer 411; 10 mg —Pfizer 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 0049-427-73); Unit Dose 100's (NDC 0049-4120-41) **CAUTION:** Federal law prohibits dispension without prescription.

dispensing without prescript

More detailed professional information available on request.



#### 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<sup>+</sup> 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.

DA



#### Unsurpassed dosage flexibility



The recommended starting/maintenance dose For patients who require a step up in dosage



For elderly or small-stature patients who require lower doses



BASE Group

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#### **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., Wolft-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 midler ventricular dysfunction should, it possible, be controlled before verapamil treatment. ISOPTIN should be avoided in patients with any degree of left ventricular dysfunction if they are receiving a beta adrenergic blocker (see DRUG INTERACTIONS). Hypotension: ISOPTIN (verapamil HCI) may produce occasional symptomatic hypotension. Elevated Liver Enzymes: Elevations of transaminases with and without concomitant elevations in patients receiving verapamil is therefore prudent. Accessory Bypass Tract (Wolft-Parkinson-White): Patients with paroxysmal and/or ethronic atria libuter or atrial bibrilation and a coexisting accessory Va pathway may develop increased antegrade conduction across the accessory pathway producing a very rapid ventricular response or ventricular fibrillation after receiving intravenous verapamil. While this has not been reported with oral verapamil. It should be considered a potential risk (see CONTRAINDICATIONS). Treatment is usually D.C.-cardioversion. Atrioventricular 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 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 PHECAUTIONS: Impaired Hepatic or Renal Function: Verapamil is highly metabolized by the liver with about 70% of an administered dose excreted as metabolites in the urne. 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 waranted. 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 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 concomitantly with oral antihy-pertensive agents (e.g., vasodilators, angiotensin-converting enzyme inhibitors, diuretics, alpha and beta admengic blockers) will usually have an additive effect on lowering blood pressure. Patients receiving these combinations should be appropriately monitored. Antiarrhythmic Agents: Disopyramide: Disopyramide should not be administered within 48 hours before or 24 hours atter my ersult in additive negative inotropic effect and prolongation of atrioventricular conduction. Quindine: In patients with hypertrophic cardiomyopathy (HSS), concomitant use of verapamil and nitrates as well as clinical experience suggest beneficial interactions. Climetidine: Varabie results on reduced or unchanged. Lithium: Pharmacokinetic (lowering of serum lithium levels) and pharmaco-dynamic (Increased sensitivity to the effects of lithium) interactions between oral verapamil and intituum have been reported. Carbamazepine: Verapamil therapy may increase carbamazepine con-centrations and produce related side effects during combined therapy. Rilampin: Therapy with infampin may markedly reduce oral verapamil bioavaitability. Phenobarbital: Phenobarbital therapy

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

ADVERSE REACTIONS: Constipation 7.3%, dizziness 3.3%, nausea 2.7%, hypotension 2.5%, head-ache 2.2%, edema 1.9%, CHF/pulmonary edema 1.8%, fatigue 1.7%, dyspnea 1.4%, bradycardia 1.4%, 2° and 3° AV block 0.8%, rash 1.2%, flushing 0.6% and elevated liver enzymes (see WARN-MGS). 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: anging bectoris, atrioventricular dissociation, arthralgia and rash, blurred vision, cerebrovascular accident, chest pain, claudication, confusion, diarrhea, dry month, ectymosis or humision, equilibrium disorders, endhema multiforms, exanthema, nastroinand rain, buries of cheatovascular accenter, chest part, claudicatori, controloti, durine, dry mouth, ecchymosis or brusing, 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), shakiness, somnolence, spotty menstruation, Steven-Johnson syndrome, sweating, syncope, urticaria.

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

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

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

therapy. If adequate response is not obtained with 180 mg of ISOPTIN SR, the dose may be titrated a. 240 mg each morning
 b. 180 mg each morning plus 180 mg each evening, or 240 mg each morning plus 120 mg

each evening, or 240 mg each morning plus 100 mg each evening, or 240 mg each morning plus 120 mg each evening. c. 240 mg every twelve hours: When switching from immediate release ISOPTIN to ISOPTIN SR, the total daily dose in milligrams may remain the same. 2767/2-90



These new Code of Medical Ethics publications contain the American Medical Association (AMA) ethical guidelines recognized by physicians, courts, legislatures and medical licensing boards nationwide.

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#### Announcing the first of a new NSAID class



## RELAFEN®

#### For the treatment of osteoarthritis and rheumatoid arthritis

Efficacy comparable to naproxen or aspirin

#### A low incidence of peptic ulcers

Other G.I. symptoms comparable to other NSAIDs, including diarrhea (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.



© SmithKline Beecham, 1992

#### **RELAFEN®**

brand of nabumetone

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

CLINICAL PHARMACOLOGY: Relaten is a nonsteroidal anti-inflammatory drug (NSAID) that exhibits anti-inflammatory, analgesic and antipyretic properties in pharmacologic studies. As with other nonsteroidal anti-inflammatory agents, its mode of action is not known. However, the ability to inhibit prostaglandin synthesis may be involved in the anti-inflammatory effect. The parent compound is a prodrug, which undergoes hepatic biotransformation to the active component, 6-methoxy-2-naphthylaeetic acid (6MNA), a potent inhibitor of prostaglandin synthesis.

INDICATIONS AND USAGE: Acute and chronic treatment of signs and symptoms of osteoarthritis and rheumatoid arthritis

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

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

WARNINGS: Remain alert for ulceration and bleeding in patients treated chronically, even in the absence of previous G.I. tract symptoms. In controlled clinical trials involving 1,577 patients treated with *Relater* (1,140 followed for one year and 927 for two years). The cumulative incidence of peptic ulcers was 0.396 (956 (CI: 096, 066) at three to six months. 0.596 (95% CI; 0.196, 0.996) at one year and 0.8% (95% CI; 0.3%, 1.3%) at two years. Inform patients of the signs and symptoms of serious G.I. toxicity and what steps to take if they occur. In patients with active peptic ulcer, weight the benefits of *Relater* therapy against possible hazards, institute an appropriate ulcer treatment regimen and monitor the patients' progress carefully. In considering the use of relatively large doese (within the recommended dosage range), anticipate benefit sufficient to offset the potential increased risk of G.I. toxicity.

sufficient to offset the potential increased risk of 6.1. toxicity. **PRECAUTIONS:** Because naburnetone 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 dysfunction, or in whom an abnormal liver test has occurred, for evidence of the development of a more severe hepatic reaction while on *Relaten* therapy. If abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop, or i systemic mainfestations occur (e.g., eosinophilia, rash, etc.), discontinue *Relaten*. Use *Relaten* cautiously in patients with severe hepatic impairment. As with other NSAIDs, use *Relaten* cautiously in patients with a history of congestive heart failure, hypertension or other conditions predisposing to fluid retention. Based on 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 of NSAID treatment, particularly when the drugs are used tor less serious conditions where treatment without NSAIDs may represent an acceptable alternative to both the patient and the physician. and the physician

serious conditions where treatment without NSAIDs may represent an acceptable alternative to both the patient and the physician. Exercise caution when administering *Relation* with warfarin since interactions have been seen with other NSAIDs. In two-year studies conducted in mice and rats, nabumetone had no statistically significant tumorigenic effect. Nabumetone did not show mutagenic potential in the Ames test and mouse micronucleus test *in vivo*. However, nabumetone- and 6MNA-treated imphocytes in culture showed chromosomal aberrations at 80mog/mL and higher concentrations (equal to the average human exposure to *Relation* at the maximum recommended dose). Nabumetone did not show mutagenic potential in the Ames test and mouse micronucleus test *in vivo*. However, nabumetone did not impair fertility of male or female rats treated orally at doses of 320 mg/kg/dgb pelore mating. Pregnancy Category C: Nabumetone did not cause any tearologenic effect in rats given up to 400 mg/kg and in rabbits up to 300 mg/kg orally. However, increased post-implantation loss was observed in rats 100 mg/kg orally and at higher doses (equal to the average human exposure to 6MNA at the maximum recommended human dose). There are no adequate, well-controlled studies in pregnant women. Use the drug during pre-pregnancy is not recommended. Because of the known effect of prostaglandin-synthesis-inhibiting drugs on the human fetal cardiovascular system (closure of ductus arteriosus), use of *Relaten* during the third trimester of pregnancy is not recommended. The effects of *Relaten* on labor and delivery in women are not known. As with other drugs known to inhibit prostaglandin synthesis, an increased incidence of dystocia and delayed parturition occurred in rats treated throughout pregnancy: is not recommended for use in nursing mothers. Saitty and effects in chlicacy in chlicacy

age or older.

ADVERSE REACTIONS: Incldence ≥ 1%--Probably Causally Related--Diarrhea (14%), dyspepsia (13%), abdominal pain (12%), constipation\*, flatulence\*, nausea\*, positive stool gualac\*, dry mouth, gastritis, sto-matitis, vorniting, dizziness\*, headache\*, fatigue, increased sweating, insomnia, nervousness, somnolence, puritis\*, rash\*, linnitus\*, deema\*. \*Incidence of reported reaction between 3% and 9%. Reactions occurring in 1% to 3% of the patients are unconstruct

Incidence of reputed reaction between 34 and 94. Reactions occurring in 14 to 340 of the patients are unmarked. Incidence <114—Probably Causally Related<sup>+</sup>—Anorexia, cholestatic jauntice, duodenal ulcer, dysphagia, gastric ulcer, gastroenteris, gastrointestinal bleeding, increased appetite, liver function abnormalities, melena, asthenia, agitation, anxiety, confusion, depression, malaise, paresthesia, termor, verigto, bullous eruptions, photosensitivity, unicaria, pseudoporphyria, cutanea tarda, vasculitis, weight gain, dyspnea, hypersensitivity pneumonitis, albuminuria, azotemia, interstitial nephritis, abnormal vision, anaphylactoid reaction, angioneurotic edema. Incidence <119—Causal Relationship Unknown1—Bikrubinuria, duodenitis, eructation, galistones, gingivitis, glossitis, pancreatitis, rectal biesding, nightmares, acne, alopecia, erythema multiforme, Stevens-Johnson Syndrome, angina, arrinythmia, hypertension, mycocaridial infarction, papitations, syncope, thrombophiebitis, astima, cough, dysura, hematuria, impotence, renal stones, taste disorder, fiver, chills, anemai, leukopenia, granulostopenia, thrombocytopenia, thrombocytopenia, thrombocytopenia, thrombocytopenia, thrombocytopenia, thromatoryta weight loss. †Adverse reactions reported only in worldwide postmarketing experience or in the literature are talacided.

TADVersible reactions reported only in Workdwide postmarketing experience or in the iterature are natiozed. **DVERDOSAGE:** If acute overdose occurs, empty the stomach by vomiting or lavage and institute general sup-portive measures as necessary. Activate charcoal, up to 60 grams, may effectively reduce nabumetone 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 tollowing ingestion of 30 *Relaten* tablets (15 grams tota). Stools were negative for occult blood and there was no fail in serum hemoglobin concentration. The patient had no other symptoms. She was given an H<sub>2</sub>-receptor antagonist and discharged from the hospital without sequelae.

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

HOW SUPPLIED: Tablets: Oval-shaped, film-coated: 500 mg-white, imprinted with the product name RELAFEN and 500, in bottles of 100 and 500, and in Single Unit Packages of 100 (intended for institutional use only); 750 mg-beige, imprinted with the product name RELAFEN and 750, in bottles of 100 and 500, and in Single Unit Packages of 100 (intended for institutional use only). Store at controlled room temperature (59° to 86°F) in well-closed container; dispense in light-resistant container.

500 mg 100's: NDC 0029-4851-20 500 mg 500's: NDC 0029-4851-25 500 mg SUP 100's: NDC 0029-4851-21 © SmithKline Beecham, 1992

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

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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*<sup>1-4</sup>  Excellent tissue penetration without sacrificing therapeutic serum levels<sup>1,5</sup>

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## BAXIN BAXIN Clarithromycin 250 mg and 500 mg Tablets SPANS THE SPECTRUM

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## ONCE DAILY SECONDALLY Nasal Inhaler (triamcinolone acetonide)

- Unique once-daily convenience
- Comfortable delivery—very low incidence of nasal irritation
- Prompt relief for many patients<sup>1</sup>
- Early morning mean serum cortisol levels remained comparable to baseline throughout a 2-year study<sup>2\*</sup>

#### Simplifies dosing



### Extends relief

In doses up to 440 mcg/day. Please see next page for brief summary of prescribing information. © 1992 Rhône-Poulenc Rorer Pharmaceuticals Inc Printed in U.S.A.
## THE ONCE-DAILY NASAL STEROID

R Nasal Inhaler (triamcinolone acetonide)



#### ina 'za-cortì

Triamcinclone Acetonide N For Intranasal Use Only Shake Well Before Using Acetonide Nasal Inhaler

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

Contrainticates is 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 withdrawal, e.g., joint and/or muscular pain, lassitude and depression. Patients previously treated for prolonged periods with systemic corticosteroids and transferred to topical corticoids should be carefully monitored for acute adrenal insufficiency in response to stress. In those patients who have asthma or other clinical conditions requiring long-term systemic corticosteroid treatment, too rapid a decrease in systemic corticosteroids may cause a severe

concosteriol realment, too rapid a decrease in systemic concosterious may cause a severe exacerbation of their symptoms. The use of Nasacort Nasal Inhaler 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 Inhaler should be used with caution in patients already receiving alternate-day prednisone treatment for any disease.

#### PRECAUTIONS

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

section). Nasacort Nasal Inhaler should be used with caution, if at all, in patients with active or quiescent tuberculous infections of the respiratory tract or in patients with untreated fungal, bacterial, or systemic viral infections or ocular herpes simplex. Because of the inhibitory effect of corticosteroids on wound healing in patients who have experienced recent nasal septal ulcers, nasal surgery or trauma, a corticosteroid should be used with caution until healing has occurred. When used at excessive doses, systemic corticosteroid effects such as hypercorticism and adrenal suppression may appear. If such changes occur, Nasacort Nasal Inhaler should be discontinued slowly, consistent with accepted procedures for discontinuing oral steroid therapy. Information for Patients: Patients being treated with Nasacort Nasal Inhaler should receive the following information and instructons. the following information and instructions

the following information and instructions.<sup>2</sup> Patients should use Nasacort Nasal Inhaler at regular intervals since its effectiveness depends on its regular use. A decrease in symptoms may occur as soon as 12 hours after starting steroid therapy and generally can be expected to occur within a few days of initiating therapy in altergic initiatis. The patient should take the medication as directed and should not exceed the prescribed dosage. The patient should contact the physician if symptoms do not improve after three weeks, or if the condition worsens. Nasal irritation and/or burning or stinging after use of the spray occur only rarely with this product. The patient should contact the physician if they occur.

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

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

carcinogènic potential are underway. Impairment of Fertility: Male and female rats which were administered oral triamcinolone acetonide at doses as high as 15 mcg/kg/day (110 mcg/m²/day, as calculated on a surface area basis) exhibited no evidence of impaired tertility. 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 r 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

lacebo and non-toxic or marginally toxic doses (0.5 and 1.0 mcg/kg/day or 3.8 mcg/m²/day and 7.0 mcg/m²/day).

placebo and non-load or marginality toxic obsets (US and 10 mcg/kg/day or 30 mcg/mr/day). **Pregnancy:** Pregnancy Category C. Like other corticoids, triamcinolone acetonide has been shown to be teratogenic in rats and rabbits. Teratogenic effects, which occurred in both species at 0.02, 0.04 and 0.08 mg/kg/day (approximately 135, 270 and 540 mcg/mr/day in the rat and 320, 640 and 1280 mcg/mr/day in the rabbit, as calculated on a surface area basis), included a low incidence of cleft patiate and/or internal hydrocephaly and axial skeletal detects. Teratogenic effects, including CNS and cranial mafformations, have also been observed in non-human primates at 0.5 mg/kg/day (approximately 6.7 mg/mr/day). The doese 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 3187 times the maimimum recommended dose of 140 mcg of Nasacort per day based on a patient body weight of 70 kg. Administration of aerosol by inhalation to pregnant rats and rabbits produced embryotoxic and fetotoxic effects which were comparable to those produced by administration by other routes. There are no adequate and well-controlled studies in pregnant rats and rabbits produced embryotoxic coses suggests that rodents are more prone to teratogenic effects from corticoids than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy, most women will require a lower exogenous steroid does and many will not need corticoid than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy, most women will require a lower exogenous steroid does and many will not need corticoid than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy. most women will require a lower exogenous steroid does and many will not need corticoid than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy. women will requir during pregnancy

Nontreatogenic Effects: Hypoadrenalism may occur in infants born of mothers receiving corticosteroids during pregnancy. Such infants should be carefully observed. Nursing Mothers: It is not known whether triamcinolone acetonide is excreted in human milk. Because other corticosteroids are excreted in human milk, caution should be exercised when Nasacort Nasal Inhaler is administered to nursing women.

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

ADVERSE REACTIONS: In controlled and uncontrolled studies, 1257 patients received treatment

ADVERSE REACTIONS: In controlled and uncontrolled studies, 1257 patients received treatment with intranasal 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 irritation was reported by 2,8% of the patients who received Nasacort and included: dry muccus 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.

or these has a adverse effects. In the event of accidential overdose, an increased potential for these adverse experiences may be expected, but systemic adverse experiences are unlikely (see OVERDOSAGE section). OVERDOSAGE: Acute overdosage with this dosage form is unlikely. The acute topical application of the entire 15 mg of the canister would most likely cause nasal irritation and headache. It would be unlikely to see acute systemic adverse effects if the nasal application of the 15 mg of triamcinolone acetonide was administered all at once.

Caution: Federal (U.S.A.) law prohibits dispensing without prescription. Please see product circular for full prescribing information.

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-Pouleac Rorer Pharmaceuticals Inc.



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## OBJECTIVES

(partial list)

## MATERNAL AND

 Increase the proportion of pregnant women receiving appropriate prenatal screening and care.

 Increase abstinence from tobacco, alcohol, cocaine, and marijuana during pregnancy.

#### IMMUNIZATION

 Reduce indigenous cases of vaccine-preventable diseases through adherence to immunization schedules.

## SUGGESTED

Age	Immunization(s)
0-2 days	HBV*
1-2 mo	HBV*
2 mo	DTP, OPV, HibTITER or PedvaxHIB
4 mo	DTP, OPV, HibTITER or PedvaxHIB"
6 mo	DTP, HibTITER, HBV*
12-15 mo	PedvaxHIB*
15 mo	M-M-R <sub>II</sub> , HibTITER
15-18 mo	DTP/DTaP, OPV
4-6 yr	DTP/DTaP, OPV, M-M-R <sub>II</sub> †
11-12 yr	M-M-R <sub>II</sub> <sup>†</sup> , HBV***
14-16 yr	Td, HBV***

 Hoputitis B vaccination (HBV) schedules vary depending on the mother's HB status.

<sup>8</sup> Vaccine solected initially should be used for full course of immunization.

\*\*Some schedules offer the third dose between 6 · 18 months if mother is HB negative

1 Recommended immunization schedules vary.



#### advertisement

## American Medical Association

Physicians dedicated to the health of America



#### Dear Colleague:

Since the American Medical Association was founded in 1847, we have been committed to promoting the health and welfare of all our citizens. **HEALTHY YOUTH 2000** is an educational program that embodies this commitment by focusing on a segment of our population that is at special risk: the youth of America.

**HEALTHY YOUTH 2000** is part of the AMA's effort in support of HEALTHY PEOPLE 2000, a broad-based plan designed by the U.S. Public Health Service to increase the span of healthy life for all Americans. The AMA's involvement in this program is further proof that our concern for our patients' welfare does not end when they leave our offices.

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James S. Todd, M.D. Executive Vice President

# HEALTHY YOUTH 2000. THE CHALLENGE.

Childhood and adolescence are critical times for healthy human development. Not only are children dependent on other individuals for their food, clothing, and protection, but they are influenced by the behavioral patterns that they witness. The vulnerability of children places them at special risk for many preventable problems.

Adolescence is a time of rapid physical and emotional change, a period of learning and experimentation. Attitudes and behaviors that are developed in adolescence, related to diet, exercise, sexual practices, safety habits, tobacco, and alcohol use, may have health consequences that continue through adulthood.

As physicians, our potential opportunities for positive interventions with our patients begin with contacts prior to conception and continue throughout pregnancy, childhood, and adolescence.

Studies have clearly documented the value of the medical care we provide. Prenatal care and immunization programs are proven, cost-effective activities. No less valuable are the advice and encouragement we give to parents and caregivers and, ultimately, to youth themselves. The need for health counseling is especially important for adolescents as they confront rapid physical, emotional, and behavioral changes. These are necessary tools to ensure that the youth of America achieve a maximum level of health and function.



#### NUTRITION

 Reduce the prevalence of overweight among children and adolescents.

 Insure adequate calcium intake among children and adolescents.

 Increase the proportion of young people who use food labels to make nutritious food selections.

### UNINTENTIONAL INJURIES

 Reduce deaths among youth aged 15 through 24 caused by motor vehicle crashes.

 Reduce drowning deaths among children and young adults.

 Increase the use of helmets among motorcyclists and bicyclists.

 Increase the use of automobile safety seats and seatbelts for children.

## OBJECTIVES

#### PHYSICAL Activity And Fitness

Increase the proportion of children and young adults who engage in vigorous physical activity that promotes the development and maintenance of cardiorespiratory fitness 3 or more days per week for 20 or more minutes per occasion.

 Reduce the proportion of people aged 6 and older who engage in no leisure-time physical activity.

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#### ORAL HEALTH

Reduce dental cavities so that the proportion of children with one or more cavities is no more than 60% among adolescents aged 15.

#### ENVIRONMENTAL HEALTH

 Reduce asthma morbidity among children aged 14 and younger, as measured by a reduction in asthma hospitalizations.

# HEALTHY YOUTH 2000.

*HEALTHY YOUTH 2000* is an educational program designed to promote better health for the youth of America. The program will provide educational materials for health professionals, patients, and the general public.

## **PHYSICIAN INVOLVEMENT**

Active physician involvement is the key to success for *HEALTHY YOUTH 2000*. Participating physicians will receive educational materials for use by parents, other caregivers, and youth themselves. All physicians will have access to the campaign's CME programs and to regular updates through AMA publications, mailings, and American Medical Television.

## PATIENT EDUCATION IN YOUR OFFICE

The physician's office provides an ideal environment for distributing educational materials to parents, other caregivers, and youth. Participating physicians will receive free educational brochures and posters about immunization, nutrition, physical fitness, safety and other health issues affecting youth. Their patients will enjoy special access to AMA-approved books and videos designed to enhance the health of our youth.

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# ACTION PLAN.

## **PUBLIC EDUCATION**

*HEALTHY YOUTH 2000* will use national and local television to inform the public about youth health subjects. The campaign will provide medical editors and writers with the facts they need to report accurately and responsibly on these subjects.

Your patients will receive useful, health-promoting information from the campaign in their newspapers, national magazines, and the AMA's own publication *Living Well*. These messages will promote healthy lifestyles for our youth, and remind parents of the need for and availability of preventive medical care. The AMA will also work with the publishers of classroom materials to deliver health-promoting information directly to America's youth.

## NATIONAL SPONSORS

National sponsors will support the educational goals of *HEALTHY YOUTH 2000* 

through messages on their products, in their advertising, and by the distribution of millions of informational brochures. Sponsor support will also enable consumers to obtain AMA-approved books and videos at substantial discounts. The scientific content of all sponsored messages and materials will be completely controlled by the AMA. Campaign sponsors include:





Cheerios.

Good Housekeeping







#### TOBACCO

 Reduce the initiation of cigarette smoking by children and youth.

 Reduce smokeless tobacco use by males.

#### ALCOHOL AND OTHER DRUGS

 Reduce deaths among people aged 15 through 24 caused by alcohol-related motor vehicle crashes.

 Reduce the proportion of young people who use alcohol, marijuana, and cocaine.

 Reduce the proportion of high school seniors and college students engaging in heavy drinking of alcoholic beverages.

### MENTAL HEALTH AND MENTAL DISORDERS

 Reduce suicides among youth aged 15 through 19.

 Increase access to mental health services for children and adolescents.



#### SEXUALLY TRANSMITTED DISEASES

 Encourage the abstinence of sexual activity among unmarried young people.

 Increase the awareness of condom use among sexually active, unmarried young people.

#### ROLE OF HEALTH CARE PROVIDERS

 Increase the proportion of primary care providers who routinely assess and counsel their patients regarding the frequency, duration, type, and intensity of each patient's physical activity practices.

 Increase the proportion of primary care and oral health care providers who routinely advise cessation and provide assistance and follow-up for all of their tobacco-using patients.

 Increase the proportion of primary care and mental health care providers who provide age-appropriate counseling on the prevention of HIV and other sexually transmitted diseases.

# OPPORTUNITIES FOR INVOLVEMENT.

The success of the AMA's **HEALTHY YOUTH 2000** program depends on the active involvement of people from many sectors of life, including physicians, nurses, dentists, pharmacists, health educators, hospitals and a wide variety of professional organizations. Opportunities for involvement range from simple distribution of patient education materials to active participation in educational activities at community, regional and national levels.

To enroll, simply complete and return the following enrollment form.

Yes! Enroll me in the AMA's HEALTHY YOUTH 2000. Please send me an official kit for my practice. I understand the kit includes patient education materials.

Felenhon	e Number		
City	MERCK Vacuum Vacuum	State	Zip
Address	Campaign sponsore incl	ages will promote healthy yles for our youth, and	
Name	materials will be compa controlled by the AMA.	L. These	anton Living We

- Please send\_\_\_\_\_additional kits (one for each doctor in our practice).
- $\Box$  Check here if you want your kit(s) to be bilingual (Spanish and English).
- Check here to receive membership information from the American Medical Association and/or the American Academy of Pediatrics.

### Mail To:

### HEALTHY YOUTH 2000

3575 Cahuenga Blvd. West, Suite 400 Los Angeles, CA 90068



HEALTHY YOUTH 2000 is the fourth in a series of national health promotion campaigns conducted by the American Medical Association since 1988. The campaigns are designed to help all Americans live healthier lives.



- 60,000 physicians enlisted in the Campaign.
- Millions of brochures were distributed in physician offices.
- 70,000 physicians participated in CME activities.
- Millions of Americans were screened for high blood cholesterol.
- The AMA's 5-week Cholesterol Reduction course was licensed to more than 190 hospitals.
- Two prime-time specials and 54 short segments were syndicated to 118 TV stations.
- 27 million readers used two special editorial inserts printed in Good Housekeeping.
- National Sponsors delivered over 500 million messages to American households.
- Campaign messages were displayed in supermarkets across the country.



- 25,000 physicians enlisted in the Campaign.
- Millions of brochures were distributed in physician offices.
- 75,000 physicians participated in CME activities.
- Two 5-part reports on national television were tied in with editorial inserts in *Good Housekeeping.*
- A national Health Reporters Conference produced extensive coverage in the media.
- "Walks for Women's Health" were held in 21 cities.
- National Sponsors delivered some 400 million messages to American households.



- 20,000 physicians enlisted (activity ongoing).
- Millions of brochures are currently being distributed in physician offices.
- Advertorial inserts in six issues of *American Medical News* and *JAMA* to more than 350,000 physicians.
- An 8-part report on ABC's HOME Show tied in with 10 million educational inserts in *Good Housekeeping* and *Parade*.
- A National Media Seminar resulted in extensive media coverage.
- The AMA's smoking cessation program was released in video format.









## To enroll in HEALTHY YOUTH 2000 – Return form at left

for pain/inflammation.

Fast, effective relief

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.

## Fast Relief. Fast Recovery.

Anaprox®DS Anaprox® (NAPROXEN SODIUM)



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

Brief Summary: Contraindications: Patients who have had allergic reactions to NAPROSYN® ANAPROX® or NAPROX® OS or in whom aspirin or other NSAIDs induce the syn-drome of asthma, rhinitis, and nasal polyps. Because anaphysicit reactions usu-ally occur in patients with a history of such reactions, question patients for asthma, nasal polyps, urticaria, and hypotension associated with NSAIDs before starting therapy. If such symptoms occur, discontinue the drug. Warnings: Serious GI toxicity such as bleeding, ulceration, and perforation, can occur at any time, with or without warning symptoms, in patients treated chroni-cally with NSAIDs. Remain alert for ulceration and bleeding even in the absence of previous GI tract symptoms. In clinical triats, symptomatic upper GI upper GI

of previous GI tract symptoms. In clinical trials, symptomatic upper GI ulcers, gross bleeding or perforation occur in about 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. Inform patients of signs and/or symptoms of serious GI toxicity and what steps to take if they occur. Studies have not identified any subset of patients not at risk of developing peptic ulceration and bleeding. Except for a prior history of serious GI events and other risk factors associated with peptic ulcer disease, such as alcoholism, smoking This fractors associated with peptic ucer disease, such as acconousin, similarity, etc., no risk factors (e.g., age, six) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well and most spontaneous reports of fata G events are in this population. In consid-enting the use of relatively large doess (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity.

Precautions: DO NOT GIVE NAPROSYN® (NAPROXEN) CONCOMITANTLY WITH ANAPROX® OR ANAPROX® DS (NAPROXEN SODIUM) SINCE THEY CIRCULATE IN PLASMA AS THE NAPROXEN ANION. Acute interstitial nephritis with hematuria. proteinura, and nephrotic syndrome has been reported. Patients with impaired renal function, heart failure, liver dysfunction, patients taking diuretics, and the elderly are at greater risk of overt renal decompensation. If this occurs, discon tinue the drug. Use with caution and monitor serum creatinine and/or creatinine clearance in patients with significantly impaired renal function. Use caution in patients with baseline creatinine clearance less than 20 ml/minute. Use the low patients with baseline clearline clearline clearline tests that horizon and the low of the low-set effective does in the elderity 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 SQPI or SQOI occurred in controlled trials in less than 1% of patients. Severe hepatic reactions, including jaundice and fathe hepatitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g., eosinophilia or rash), discontinue therapy. If steroid dosage is reduced or administed dirine therapy, os schwid and dosage nations to factor for patients for the and the patient herapy. (e.g., existing the stat), discontinue therapy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including adrenal insufficiency and exacerbation of arthritis symptoms. Determine hemoglobin values periodically for patients with initial values of 10 grams or less who receive long-term therapy. Peripheral edime has been reported. For patients with restricted sodium intake, note that each tablet con-tains approximately 25 or 50 mg [1 or 2 mG1 sodium. Use with caution in patients with fluid retention, hypertension or heart failure. The drug may reduce fever and inflammation, diminisming their diagnostic value. Conduct ophthalinic 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 bedorie, may result in hospitalization and even tatal uctromes. Physicians may energy can cause discontrol and, nergy indire serious side energy, such as or bleeding, may result in hospitalization and even fatal outcomes. Physicians may wish to discuss with patients potential risks and benefits of NSAIDs, particularly when they are used for less serious ponditions where treatment without NSAIDs may be acceptable. Patients should use caution for activities requiring alertness if they experience drowsiness, dizziness, vertigo or depression during therapy. Laboratory Tests: Because serious GI tract ulceration and bleeding can occur Laboratory Tests: Because serious GI tract ulceration and bleeding can accur without warning symptoms, follow chronically treated patients and inform them of the importance of the follow on. **Drug Interactions**. Use caution when giving concomitantly with counarin-type anticoagulants: a hydantoin, sulfonamide or sulforylurea: trossemide; ithium, beta-blockers; probenecid: or methotrexate. **Drug/Laboratory Test Interactions**: May decrease platelet aggregation and prolong bleeding time or increase urinary values for 17-ketogenic steriods. Iempo-rarily stop therapy for 72 hours before adrenal function tests. May interfere with urinary assays of 5HIAA. **Carcinogenesis**: A 2year rat study showed no evi-dence of carcinogenicity. **Pregnancy:** Category B. Do not use during pregnancy unless clearly meeded. Avoid use during late pregnancy. **Musring Mothers**: Avoid use. **Pediatric Use**: Single doses of 25–5 mg/kg (as naproxen suspension), with total duly 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 825 mg/day. In children with juvenile arthritis, rash and prolonged bleeding 825 mg/day. In children with juvenile arthritis, rash and prolonged bleeding times were more frequent, GI and CNS reactions about the same, and other reac-tions less frequent than in adults. Incidence Greater Than 1%. Probable Causal Relationship, GI. The most frequent complaints related to the GI tract: constiga-tion," hearthurn, abdominal pain, mausea," dyspepsia, diarrhea, stomattits. CNS headache" dizziness," drowsiness," light headedness, vertigo. Dermatologic: itching (pruntlus)," skin eruptions," ecclymoses," sweating, purpura. Special Senses: tinnitus," hearing, disturbances, visual disturbances. Cardiovascular: edema<sup>2</sup>, dyspnea<sup>4</sup>, palpitations. General: thirst. "Incidence of reported reaction 3% –9%. Where unmarked, incidence less than 3%. Incidence Less Than 1%: Prohable Causal Belationship. (etc) abnormal liver function tests; colitic, KI blaed. 5 A= 3 A, where ultimated, including less than 3 A, including Less than 1 A. Probable Causa Relationship, Cai abnormal liver function tests, colits, Gi bleed-ing and/or perforation, hematemesis, jaundice, melena, peptic ulceration with bleeding and/or perforation, vomiting, Renai: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal fail-ure, renal papillary necroisis. Hematologic: agranulocytosis, cosinophilia, granulo-cytopenia, leukopenia, thrombocytopenia. CNS: depression, dream homemalities and mucha enderstand incompany. abnormalities, inability to concentrate, insomnia, malaise, myalgia and muscle weakness. Dermatologic: alopecia, photosensitive dermatitis, skin rashes. Spe cial Senses: hearing impairment. Cardiovascular: congestive heart failure. Respicial Senses: hearing impairment. Cardiovascular: congestive heart failure. Respi-ratory: eosingohici pneuromitis. General: angohylactoit reactions, menstrual disorders, pyrexia (chilis and fever). Causal Relationship lukinown: Heratologic: aplastic anemia, hemolytic anemia. CNS: aseptic meningitis, cognitive dysfunc-tion. Bernatologic: epidermal hecrolysis, erythema multiforme, photosensitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa, Stevens-Johnson syndrome, uricaria. Gl. no. peptic Gi ulceration, ulcerative stomatitis. Cardiovascular: vasculitis. General: angioneurotic edema, hyper-elvenia. hypoerlevenia. glycemia, hypoglycemia. Overdosage: May have drowsiness, heartburn, indigestion, nausea, vomiting. A

Overdosage: May have drowsiness, heartburn, indigestion, nausea, vomiting, A few patients have had seizures. Empty stomach and use usual supportive meas-ures. In animals 0.5 g/kg of activated charcoal reduced plasma levels of naproxen. Dosage and Administration for Mild to Moderate Pain, Dysmenorrhee and Acutte Tendinitis and Burstitis: Recommended data find, does is 550 mg, foi lowed by 275 mg every 61 to Bhours. Total daily does should not exceed 1375 mg. Dosage and Administration for Rheumatoid Arthritis, Osteoarthritis and Marking Spondytitis: Recommended dose in adults is 275 mg or 550 mg foi to 1550 mg per day for limited periods when a higher level of an inflammatory analgesis: activity is required. At this dosage, physicians should observe suffi-cient increased clinical benefits to offset potential increased trisk. Seaution: Federal law prohibits dispensing without prescription. See package insert for full Prescribing Information.

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Revised 9/91





"SHAHAJJO!"

CARE

"Shahajjo!" in Bangladesh. "Erdu!" in Ethiopia. "Ayudame!" in Central America. In any language, when the world cries "Help!" CARE is there. Please. Be there for CARE.

#### 1.800.242.GIVE

Because coexisting conditions often complicate hypertension...

# DynaCirc<sup>®</sup> puts their safety first.



#### **Facilitates renal function.**

- No clinically significant change in serum creatinine<sup>1,2</sup> or creatinine clearance<sup>1,3</sup>
- No clinically significant effect on glomerular filtration rate<sup>3-6</sup>
- Maintains or decreases filtration fraction<sup>1,3,6</sup>



#### Maintains cardiac performance.

- No significant effect on heart rate\*710
- No adverse effect on cardiac conduction<sup>11,12</sup> or contractility<sup>+3,10,13-15</sup>
- No alteration of digoxin clearance<sup>16</sup>



#### Does not compromise metabolic parameters.

- No clinically significant effect on serum glucose metabolism<sup>17</sup>
- No effect on glucose tolerance, insulin secretion or insulin action in NIDDM patients<sup>17</sup>
- No clinically significant effect on lipid metabolism<sup>18,19</sup>

- No known contraindications except for hypersensitivity to DynaCirc
- No significant interactions with the 20 most-commonly prescribed drugs<sup>‡</sup>
- Effectively reduces <u>diastolic</u> and <u>systolic</u> blood pressure without orthostatic hypotension<sup>\$7,20,21</sup>
- Side effects are usually minimal and transient<sup>17,20,23</sup>
  - 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.

† 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. Isradjuine has a negative inotropic effect at high does 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. Shulial therapy with bioher than recommended doese may cause or the.

§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<sup>®</sup> (isradipine) CAPSULES

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

#### CONTRAINDICATIONS

DynaCirc<sup>®</sup> is contraindicated in individuals who have shown hypersensitivity to any of the ingredients in the formulation.

#### WARNINGS None

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 doses. 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 mycongestive heart laiure have shown that DynaCirc® reduced alterioad without impaining 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 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 antihypertensive effect.

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 Kruseli LP, Jespesen
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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<sub>max</sub> (58%) and decreases in I<sub>max</sub> (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 lentanyl 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 o cccur. 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. 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 ne 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 justifies 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 discontinue 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 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 vaso-dilatory effects of DynaCirc® (diziness, edema, palpitations, flushing, tachycardia), and 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, edema, 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%), palpitations (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%), voniting (1.1%), diarrhea (1.1%). The following adverse events were reported to 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. ported in 0.5-1% of the stadpille-realed patients in hypertension studies, of aller are port 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. Musculoskeletai: cramps of legs/feet. Respiratory: cough. Cardiovascular: shortness of breath, hypotension, atrial fibrillation, ventricular fibrillation, myocardial infarction, heart failure. Gastrointestinal: abdominal discomfort, constipation, diarrhea. Urogenital: nocturia. Nervous System: drowsiness, insom-ina. leitzery expressions improvement developed decreased libitio, decreasion situation. naj lethargy, nervousness, impotence, decreased libido, depression, syncope, paresthesia (which includes numbress and tingling), transient ischemic attack, stroke. Autonomic: hyperhidrosis, visual disturbance, dry mouth, numbress. Miscellaneous: throat discomfort, leukopenia, elevated liver function tests

[DECEMBER 31, 1990 DYN-Z2]



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#### CME Program Guide

Saturday-CNBC	A CONTRACTOR OF
10:00-10:30am	From the Hill
10:30-11:30am	Medical Rounds
11:30am-12:00noon	Practical Medicine: Journal Watch
12:00-1:00pm	VideoClinic Hour
Sunday-CNBC	ALL THE REAL CLASS / DOLLARS / DEC
10:00-10:30am	From the Hill
10:30-11:30am	Medical Rounds
11:30am-12:00noonP	ractical Medicine: Milestones in Medicine
12:00-1:00pm	

Note: All times listed are Eastern Time.

# We're Expanding Our World So You Can Expand Yours

American Medical Television has joined CNBC to expand the physician's choices in quality CME-accredited medical television.

AMT, the only medical programming endorsed by the American Medical Association, has teamed up with American Medical Association, has teamed up with CNBC in a major move to make the best in medical television easier and more convenient to watch. Now the vision easier and more convenient to watch. Now the and Sunday from 10 am-1 pm (ET). AMT also offers enand Sunday from 10 am-1 pm (ET). AMT also offers entertaining health and lifestyle segments for your patients from 1 pm-3 pm (ET) Saturday and Sunday. That's 10 from 1 pm-3 pm (ET) saturday and Sunday. That's 10 full hours of medical information every weekend.

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## 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.



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NAPROSYN

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Incidence of reported reaction 3%-9%. SYNTEX US patent nos 3.904.682, 3.998.966 and others. © 1991 Syntex Puerto Rico, Inc. Rev. 39 September 1990 **IN MANY CHRONIC ARTHRITIS PATIENTS** 

# Expect Success from the #1 Prescribed NSAID\*



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

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

se see brief summary of prescribing nation on adjacent page.

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

## EXPECT SUCCESS FROM NAPROSYN® (NAPROXEN) 500 mg tablets

Also available in 375 and 250 mg tablets and in suspension 125 mg/5 mL

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



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