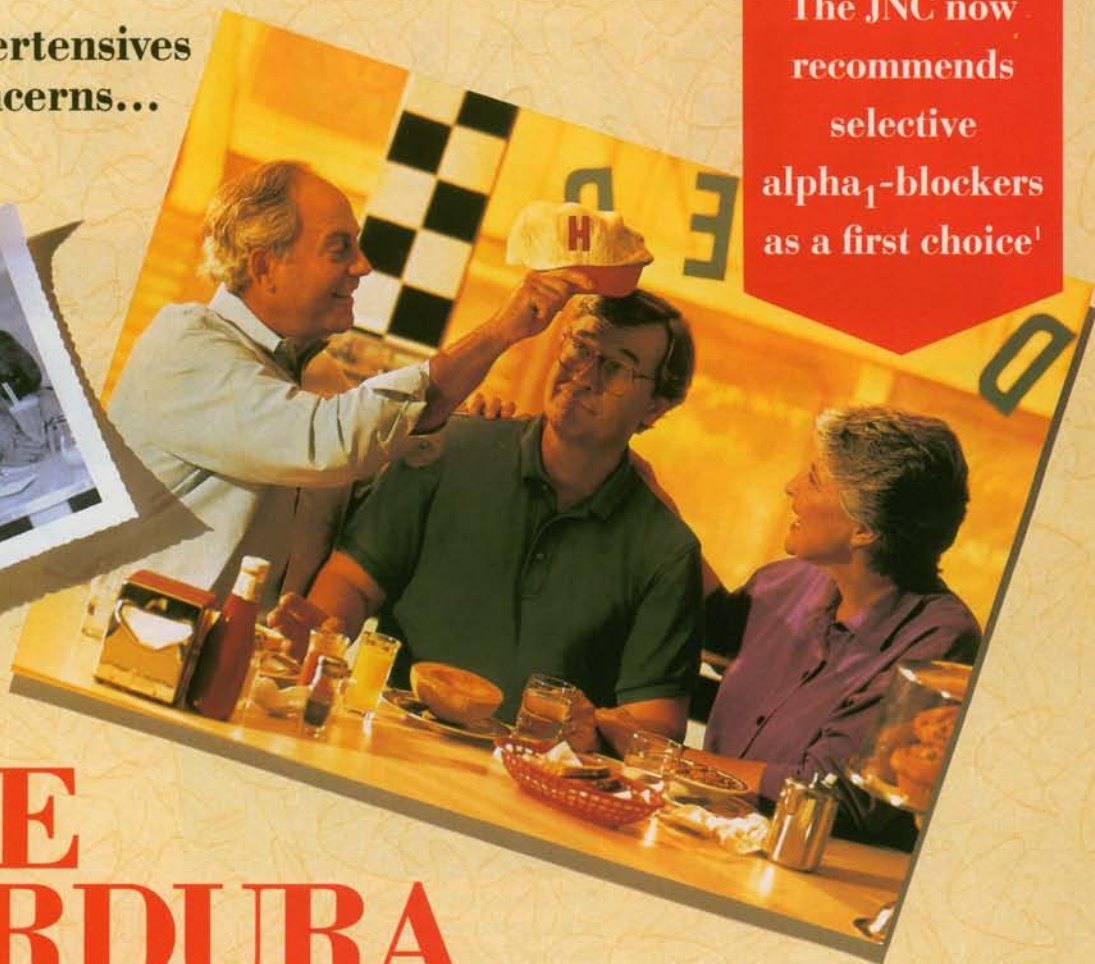


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recommends  
selective  
 $\alpha_1$ -blockers  
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— Choose CARDURA for around-the-clock blood pressure control that doesn't jeopardize blood lipids or blood sugar.<sup>2-4</sup>

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%).

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**CARDURA**<sup>®</sup> 

(doxazosin mesylate) Scored Tablets  
1 mg, 2 mg, 4 mg, 8 mg

**HYPERTENSION CONTROL FOR A NEW GENERATION.**

Please see brief summary of prescribing information on next page.

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### INDEX TO ADVERTISERS

Abbott Laboratories . . . . . 1108A-H, 1109

Bristol-Myers Squibb Company . . . . . 1176-1178

Cerenex Pharmaceuticals,  
 a Division of Glaxo . . . . . 1140A-B

Lea & Febiger . . . . . 1141

Mead Johnson Pharmaceuticals . . . . . 1099-1100

Miles Pharmaceuticals . . . . . 1156A-F

Novo Nordisk . . . . . 1135

Rhone-Poulenc Rorer . . . . . 1113, 1164-1166

Roerig, A Division of Pfizer, Inc . . . . . Cover 2-1097

G. D. Searle & Co. . . . . 1105

SmithKline-Beecham Laboratories . . . . . 1103,  
 1184-1186

Syntex Laboratories . . . . . 1126-1128, 1151-1152,  
 Cover 3, Cover 4

Wyeth-Ayerst Laboratories . . . . . 1117-1118

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MIGRAINE  
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PAIN  
PAIN  
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PAIN

RELIEVED

## ...In Minutes

- Effectively relieves acute migraine pain<sup>1</sup>
- Delivers the efficacy of an injectable opioid analgesic with the convenience of a nasal spray
- Unique nasal spray delivery allows administration even in the presence of nausea and vomiting
- Rapid onset of pain relief—within 15 minutes<sup>1</sup>
- Somnolence (43%) is the most frequently reported side effect\*
- Not a federally controlled substance

# STADOL<sup>®</sup> NS<sup>™</sup>

(butorphanol tartrate) Nasal Spray

## Acute Pain Relief, Delivered in Minutes

\*Across all clinical trials, including STADOL<sup>®</sup> Injectable and STADOL NS.<sup>2</sup>  
Patients should not perform hazardous tasks (eg, driving, operating machinery).  
Alcohol should not be consumed while using STADOL NS.

### REFERENCES

1. Diamond S, Freitag FG, Diamond ML, Urban G. Transnasal butorphanol in the treatment of migraine headache pain. *Headache Quarterly*. 1992;3:160-167.
2. STADOL<sup>®</sup> NS<sup>™</sup> Package Insert.

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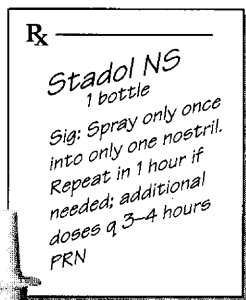
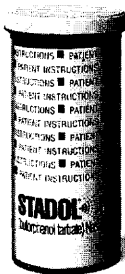


NDC 0087-5650-41  
**STADOL<sup>®</sup> NS<sup>™</sup>**  
(butorphanol tartrate)  
Nasal Spray 10 mg/ml  
For Nasal Use Only  
Store below 86°F (30°C)  
**CAUTION:** Federal law  
prohibits dispensing  
without prescription.

# STADOL<sup>®</sup> NS<sup>™</sup>

(butorphanol tartrate) Nasal Spray

Acute Pain Relief,  
Delivered in Minutes



## Brief Summary

### INDICATIONS AND USAGE

STADOL<sup>®</sup> NS<sup>™</sup> (butorphanol tartrate) Nasal Spray is indicated for the management of pain when the use of an opioid analgesic is appropriate.

### CONTRAINDICATIONS

STADOL NS is contraindicated in patients hypersensitive to butorphanol tartrate or the preservative benzethonium chloride.

### WARNINGS

#### Patients Dependent on Narcotics

Because of its opioid antagonist properties, butorphanol is not recommended for use in patients dependent on narcotics. Such patients should have an adequate period of withdrawal from opioid drugs prior to beginning butorphanol therapy. In patients taking opioid analgesics chronically, butorphanol has precipitated withdrawal symptoms such as anxiety, agitation, mood changes, hallucinations, dysphoria, weakness and diarrhea.

Because of the difficulty in assessing opioid tolerance in patients who have recently received repeated doses of narcotic analgesic medication, caution should be used in the administration of butorphanol to such patients.

### PRECAUTIONS

#### General

Hypotension associated with syncope during the first hour of dosing with STADOL NS has been reported rarely, particularly in patients with past history of similar reactions to opioid analgesics. Therefore, patients should be advised to avoid activities with potential risks.

#### Head Injury and Increased Intracranial Pressure

As with other opioids, the use of butorphanol in patients with head injury may be associated with carbon dioxide retention and secondary elevation of cerebrospinal fluid pressure, drug-induced miosis, and alterations in mental state that would obscure the interpretation of the clinical course of patients with head injuries. In such patients, butorphanol should be used only if the benefits of use outweigh the potential risks.

#### Disorders of Respiratory Function or Control

Butorphanol may produce respiratory depression, especially in patients receiving other CNS active agents, or patients suffering from CNS diseases or respiratory impairment.

#### Hepatic and Renal Disease

In patients with severe hepatic or renal disease the initial dosage interval for STADOL NS should be increased to 6-8 hours until the response has been well characterized. Subsequent doses should be determined by patient response rather than being scheduled at fixed intervals.

#### Cardiovascular Effects

Because butorphanol may increase the work of the heart, especially the pulmonary circuit, the use of butorphanol in patients with acute myocardial infarction, ventricular dysfunction, or coronary insufficiency should be limited to those situations where the benefits clearly outweigh the risk.

Severe hypertension has been reported rarely during butorphanol therapy. In such cases, butorphanol should be discontinued and the hypertension treated with antihypertensive drugs. In patients who are not opioid dependent, naloxone has also been reported to be effective.

#### Drug Interactions

Concurrent use of butorphanol with central nervous system depressants (e.g., alcohol, barbiturates, tranquilizers, and antihistamines) may result in increased central nervous system depressant effects. When used concurrently with such drugs, the dose of butorphanol should be the smallest effective dose and the frequency of dosing reduced as much as possible when administered concomitantly with drugs that potentiate the action of opioids.

It is not known if the effects of butorphanol are altered by concomitant medications that affect hepatic metabolism of drugs (cimetidine, erythromycin, theophylline, etc.), but physicians should be alert to the possibility that a smaller initial dose and longer intervals between doses may be needed.

The fraction of STADOL<sup>®</sup> NS<sup>™</sup> (butorphanol tartrate) Nasal Spray absorbed is unaffected by the concomitant administration of a nasal vasoconstrictor (oxymetazoline), but the rate of absorption is decreased. Therefore, a slower onset can be anticipated if STADOL NS is administered concomitantly with, or immediately following, a nasal vasoconstrictor.

No information is available about the use of butorphanol concurrently with MAO inhibitors.

#### Use in Ambulatory Patients

Drowsiness and dizziness related to the use of butorphanol may impair mental and/or physical abilities required for the performance of potentially hazardous tasks (e.g., driving, operating machinery, etc.). Patients should be told to use caution in such activities until their individual responses to butorphanol have been well characterized.

Alcohol should not be consumed while using butorphanol. Concurrent use of butorphanol with central nervous system depressants (e.g., alcohol, barbiturates, tranquilizers, and antihistamines) may result in increased central nervous system depressant effects.

Patients should be instructed on the proper use of STADOL NS.

#### Carcinogenesis, Mutagenesis, Impairment of Fertility

The carcinogenic potential of butorphanol has not been adequately evaluated.

Butorphanol was not genotoxic in *S. typhimurium* or *E. coli* assays or in unscheduled DNA synthesis and repair assays conducted in cultured human fibroblast cells.

Rats treated orally with 160 mg/kg/day (344 mg/sq.m.) had a reduced pregnancy rate. However, a similar effect was not observed with a 2.5 mg/kg/day (14.75 mg/sq.m.) subcutaneous dose.

#### Pregnancy

##### Pregnancy Category C

Reproduction studies in mice, rats and rabbits during organogenesis did not reveal any teratogenic potential to butorphanol. However, pregnant rats treated subcutaneously with butorphanol at 1 mg/kg (5.9 mg/sq.m.) had a higher frequency of stillbirths than controls. Butorphanol at 30 mg/kg/oral (5.1 mg/sq.m.) and 60 mg/kg/oral (10.2 mg/sq.m.) also showed higher incidences of post-implantation loss in rabbits.

There are no adequate and well-controlled studies of STADOL (butorphanol tartrate) in pregnant women before 37 weeks of gestation. STADOL should be used during pregnancy only if the potential benefit justifies the potential risk to the infant.

#### Labor and Delivery

STADOL NS is not recommended during labor or delivery because there is no clinical experience with its use in this setting.

#### Nursing Mothers

Butorphanol has been detected in milk following administration of STADOL<sup>®</sup> (butorphanol tartrate) Injectable to nursing mothers. The amount an infant would receive is probably clinically insignificant (estimated 4 microgram/liter of milk in a mother receiving 2 mg IM four times a day).

Although there is no clinical experience with the use of STADOL NS in nursing mothers, it should be assumed that butorphanol will appear in the milk in similar amounts following the nasal route of administration.

#### Pediatric Use

Butorphanol is not recommended for use in patients below 18 years of age because safety and efficacy have not been established in this population.

#### Geriatric Use

Initially a 1 mg dose of STADOL<sup>®</sup> NS<sup>™</sup> (butorphanol tartrate) Nasal Spray should generally be used in geriatric patients and 90-120 minutes should elapse before deciding whether a second 1 mg dose is needed.

Due to changes in clearance, the mean half-life of butorphanol is increased by 25% (to over 6 hours) in patients over the age of 65. Elderly patients may be more sensitive to its side effects. Results from a long-term clinical safety trial suggest that elderly patients may be less tolerant of dizziness due to STADOL NS than younger patients.

#### ADVERSE REACTIONS

A total of 2446 patients were studied in butorphanol clinical trials. Approximately half received STADOL Injectable with the remainder receiving STADOL NS. In nearly all cases the type and incidence of side effects with butorphanol by any route were those commonly observed with opioid analgesics.

The adverse experiences described below are based on data from short- and long-term clinical trials in patients receiving butorphanol by any route and from post-marketing experience with STADOL Injectable. There has been no attempt to correct for placebo effect or to subtract the frequencies reported by placebo treated patients in controlled trials.

The most frequently reported adverse experiences across all clinical trials with STADOL Injectable and STADOL NS were somnolence (43%), dizziness (19%), nausea and/or vomiting (13%). In long-term trials with STADOL NS only, nasal congestion (13%) and insomnia (11%) were frequently reported.

The following adverse experiences were reported at a frequency of 1% or greater, and were considered to be probably related to the use of butorphanol.

**BODY AS A WHOLE:** asthenia/fatigary\*, headache\*, sensation of heat

**CARDIOVASCULAR:** VASODILATION\*, PALPITATIONS

**DIGESTIVE:** ANOREXIA\*, CONSTIPATION\*, dry mouth\*, nausea and/or vomiting (13%), stomach pain

**NERVOUS:** anxiety, confusion\*, dizziness (19%), euphoria, floating feeling, INSOMNIA (11%), nervousness, paresthesia, somnolence (43%), TREMOR

**RESPIRATORY:** BRONCHITIS, COUGH, DYSPNOEA\*, EPISTAXIS\*, NASAL CONGESTION (13%), NASAL IRRITATION\*, PHARYNGITIS\*, RHINITIS\*, SINUS CONGESTION\*, SINUSITIS, UPPER RESPIRATORY INFECTION\*

**SKIN AND APPENDAGES:** sweating/clammy\*, pruritus

**SPECIAL SENSES:** blurred vision, EAR PAIN, TINNITUS\*, UNPLEASANT TASTE\* (also seen in short-term trials with STADOL<sup>®</sup> NS<sup>™</sup> (butorphanol tartrate) Nasal Spray).

(Reactions occurring with a frequency of 3-9% are marked with an asterisk. \* Reactions reported predominantly from long-term trials with STADOL NS are CAPITALIZED.)

The following adverse experiences were reported with a frequency of less than 1%, in clinical trials or from post-marketing experience, and were considered to be probably related to the use of butorphanol.

**CARDIOVASCULAR:** hypotension, syncope

**NERVOUS:** abnormal dreams, agitation, drug dependence, dysphoria, hallucinations, hostility

**SKIN AND APPENDAGES:** rash/hives

**UROGENITAL:** impaired urination

(Reactions reported only from post-marketing experience are italicized.)

The following infrequent additional adverse experiences were reported in a frequency of less than 1% of the patients studied in short-term STADOL NS trials and from post-marketing experiences under circumstances where the association between these events and butorphanol administration is unknown. They are being listed as alerting information for the physician.

**BODY AS A WHOLE:** edema

**CARDIOVASCULAR:** hypertension

**NERVOUS:** convulsion, delusions, depression

**RESPIRATORY:** apnea, shallow breathing

(Reactions reported only from post-marketing experience are italicized.)

#### DRUG ABUSE AND DEPENDENCE

Although the mixed agonist-antagonist opioid analgesics, as a class, have lower abuse potential than morphine, all such drugs can be and have been reported to be abused.

Chronic use of STADOL<sup>®</sup> (butorphanol tartrate) Injectable has been reported to result in mild withdrawal syndromes, and reports of overdose and self-reported addiction have been received.

Among 161 patients who used STADOL NS for 2 months or longer approximately 3% had behavioral symptoms suggestive of possible abuse. Approximately 1% of these patients reported significant overdose. Symptoms such as anxiety, agitation, and diarrhea were observed. Symptoms suggestive of opioid withdrawal occurred in 2 patients who stopped the drug abruptly after using 16 mg a day or more for longer than 3 months.

Special care should be exercised in administering butorphanol to emotionally unstable patients and to those with a history of drug misuse. When long-term therapy is necessary, such patients should be closely supervised.

#### OVERDOSAGE

##### Clinical Manifestations

The clinical manifestations of overdose are those of opioid drugs, the most serious of which are hypotension, cardiovascular insufficiency and/or coma.

Overdose can occur due to accidental or intentional misuse of butorphanol, especially in young children who may gain access to the drug in the home.

##### TREATMENT

The management of suspected butorphanol overdose includes maintenance of adequate ventilation, peripheral perfusion, normal body temperature, and protection of the airway. Patients should be under continuous observation with adequate serial measures of mental state, responsiveness and vital signs. Oxygen and ventilatory assistance should be available with continual monitoring by pulse oximetry if indicated. In the presence of coma, placement of an artificial airway may be required. An adequate intravenous portal should be maintained to facilitate treatment of hypotension associated with vasodilation.

The use of a specific opioid antagonist such as naloxone should be considered. As the duration of butorphanol action usually exceeds the duration of action of naloxone, repeated dosing with naloxone may be required.

#### DOSSAGE AND ADMINISTRATION

Factors to be considered in determining the dose are age, body weight, physical status, underlying pathological condition, use of other drugs, type of anesthesia to be used, and surgical procedure involved. Use in the elderly, patients with hepatic or renal disease or in labor requires extra caution (see PRECAUTIONS). The following doses are for patients who do not have impaired hepatic or renal function and who are not on CNS active agents.

The usual recommended dose for initial nasal administration is 1 mg (1 spray in one nostril). Adherence to this dose reduces the incidence of drowsiness and dizziness. If adequate pain relief is not achieved within 60-90 minutes, an additional 1 mg dose may be given.

The initial two dose sequence outlined above may be repeated in 3-4 hours as needed.

Depending on the severity of the pain, an initial dose of 2 mg (1 spray in each nostril) may be used in patients who will be able to remain recumbent in the event drowsiness or dizziness occurs. In such patients single additional 2 mg doses should not be given for 3-4 hours.

#### Safety and Handling

STADOL<sup>®</sup> NS<sup>™</sup> (butorphanol tartrate) Nasal Spray is an open delivery system with increased risk of exposure to health care workers.

In the priming process, a certain amount of butorphanol may be aerosolized; therefore, the pump sprayer should be aimed away from the patient or other people or animals.

The unit should be disposed of by unscrewing the cap, rinsing the bottle, and placing the parts in a waste container.

#### HOW SUPPLIED

STADOL NS is supplied in a child-resistant prescription vial containing a metered-dose spray pump with protective clip and dust cover, a bottle of nasal spray solution, and a patient instruction leaflet. On average, one bottle will deliver 14-15 doses if no repriming is necessary.

NDC 0087-5650-41: 10 mg per mL, 2.5-mL bottle.

#### STORAGE CONDITIONS

Store below 86°F (30°C). Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

**Caution: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION.**

A4-K004-7-93

# ARCHIVES

OF

# FAMILY MEDICINE

VOL 2 NO. 11, NOV 1993

Living in Medicine

## Up in Smoke

Anne Phelan-Adams, MD

Letters to the Editor

## Cervical Cancer Screening

Daron G. Ferris, MD

## In Reply

Mack T. Ruffin, MD

## Home-Health-Care Providers

Daniel H. Cannon, MD

## In Reply

Joanne G. Schwartzberg, MD

## Editorial Note

Majorie A. Bowman, MD, MPA

1106

1114

1114

1115

1115

1116

Original Contributions

## Incorporation of Genetics in Primary Care Practice: Will Physicians Do the Counseling and Will They Be Directive?

Gail Geller, ScD; Ellen S. Tambor, MA; Gary A. Chase, PhD; Karen J. Hofman, MD; Ruth R. Faden, PhD, MPH; Neil A. Holtzman, MD, MPH

## Management of Insomnia in Office-Based Practice: National Prevalence and Therapeutic Patterns

Stephen E. Radecki, PhD, Stephen A. Brunton, MD

## Practice Commentary

Robert B. Jolley, Jr, MD

1119

1129

1134

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<b>Acute Adrenal Insufficiency in Association With Pancreatic Carcinoma</b> <i>Claude K. Lardinois, MD; Cynthia L. Zeng, MD; Maureen K. Marshall, MD</i>	<b>1194</b>	<b>Index to Advertisers</b>	<b>1098</b>
<b>Rural Practice: Preference, Perception, and Reality</b> <i>Paul P. Hartlaub, MD, MSPH, Randolph L. Gordon, MD, MPH</i>	<b>1198</b>	<b>In Other AMA Journals</b>	<b>1110</b>
<b>Practice Commentary</b> <i>Richard D. Blondell, MD</i>	<b>1201</b>	<b>Family Album</b>	<b>1156</b>
		<b>Book Review</b>	<b>1202</b>
		<b>Classified Advertising</b>	<b>1203</b>
		<b>Instructions for Authors— See October 1993 issue, page 1088.</b>	

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# A BALANCE OF GENTLENESS AND POWER

Make It Your Choice  
for a Lifetime — write DAW.

ONCE-DAILY  
**Calan® SR**  
Verapamil HCl  
SUSTAINED-RELEASE CAPLETS



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

#### 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 hypotension were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated with verapamil.

**Precautions:** Verapamil should be given cautiously to patients with impaired hepatic function (in severe dysfunction use about 30% of the normal dose) or impaired renal function, and patients should be monitored for abnormal prolongation of the PR interval or other signs of overdosage. Verapamil may decrease neuromuscular transmission in patients with Duchenne's muscular dystrophy and may prolong recovery from the neuromuscular blocking agent vecuronium. It may be necessary to decrease verapamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenergic blockers and verapamil may result in additive negative effects on 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 verapamil. A variable effect has been seen with combined use of atenolol. Chronic verapamil treatment can increase serum digoxin levels by 50% to 75% during the first week of therapy, which can result in digitalis toxicity. In patients with hepatic cirrhosis, verapamil may reduce total body clearance and extrarenal clearance of digitoxin. The digoxin dose should be reduced when verapamil is given, and the patient carefully monitored. Verapamil will usually have an additive effect in patients receiving blood-pressure-lowering agents.

Disopyramide should not be given within 48 hours before or 24 hours after verapamil administration. Concomitant use of flecainide and verapamil may have additive effects on myocardial contractility, AV conduction, and repolarization. Combined verapamil and quinidine therapy in patients with hypertrophic cardiomyopathy should be avoided, since significant hypotension may result. 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 inhibit 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 was not mutagenic in the Ames test. Pregnancy Category C. There are no adequate and well-controlled studies in pregnant women. This drug should be used during pregnancy, labor, and delivery only if clearly needed. Verapamil is excreted in breast milk; therefore, nursing should be discontinued during verapamil use.

**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 < 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 10% or less of patients, occurred under conditions where a causal relationship is uncertain: angina pectoris, atrioventricular dissociation, chest pain, claudication, myocardial infarction, palpitations, purpura (vasculitis), syncope, diarrhea, dry mouth, gastrointestinal distress, gingival hyperplasia, ecchymosis or bruising, cerebrovascular accident, confusion, equilibrium disorders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somnolence, arthralgia and rash, exanthema, hair loss, hyperkeratosis, macules, sweating, urticaria, Stevens-Johnson syndrome, erythema multiforme, blurred vision, gynecomastia, galactorrhea/hyperprolactinemia, increased urination, spotty menstruation, impotence.

2/13/92 • P92CA7196V

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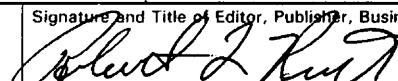
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# This Is How BPH Feels



New Indication

# Release the Grip



# of BPH

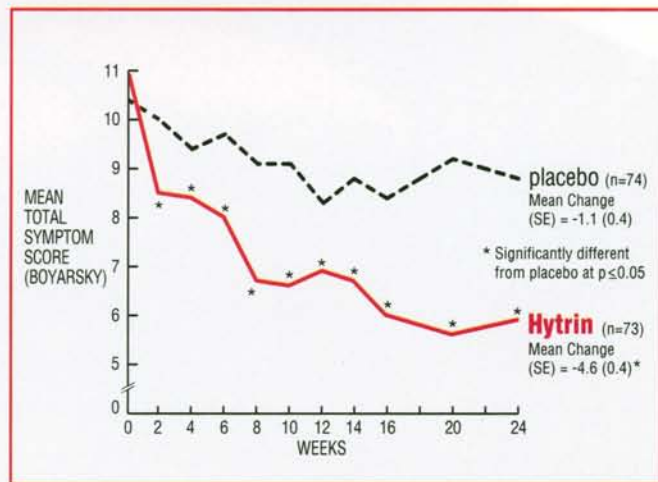
## For Fast, Effective Relief

- Hytrin can begin providing symptom relief in two weeks.<sup>1</sup>
- Approximately 70% of patients experience an increase in urinary flow and improvement in symptoms.<sup>1</sup>
- In an ongoing open-label study, the improvements in symptoms and flow rates have been sustained for up to 30 months.<sup>1,2</sup>

## From a Wide Range of Symptoms

- Hytrin significantly improves the most common and often bothersome symptoms of BPH:<sup>1</sup>
  - weak stream
  - frequency
  - nocturia
- Hytrin also significantly improves dribbling, intermittency, hesitancy, and the sensation of incomplete emptying.<sup>1</sup>

## Hytrin Rapidly Reduces Symptoms of BPH



A randomized, double-blind, placebo-controlled, multicenter trial in men with qualifying symptoms given either placebo or Hytrin titrated to response (max. 10 mg/day).<sup>1</sup>

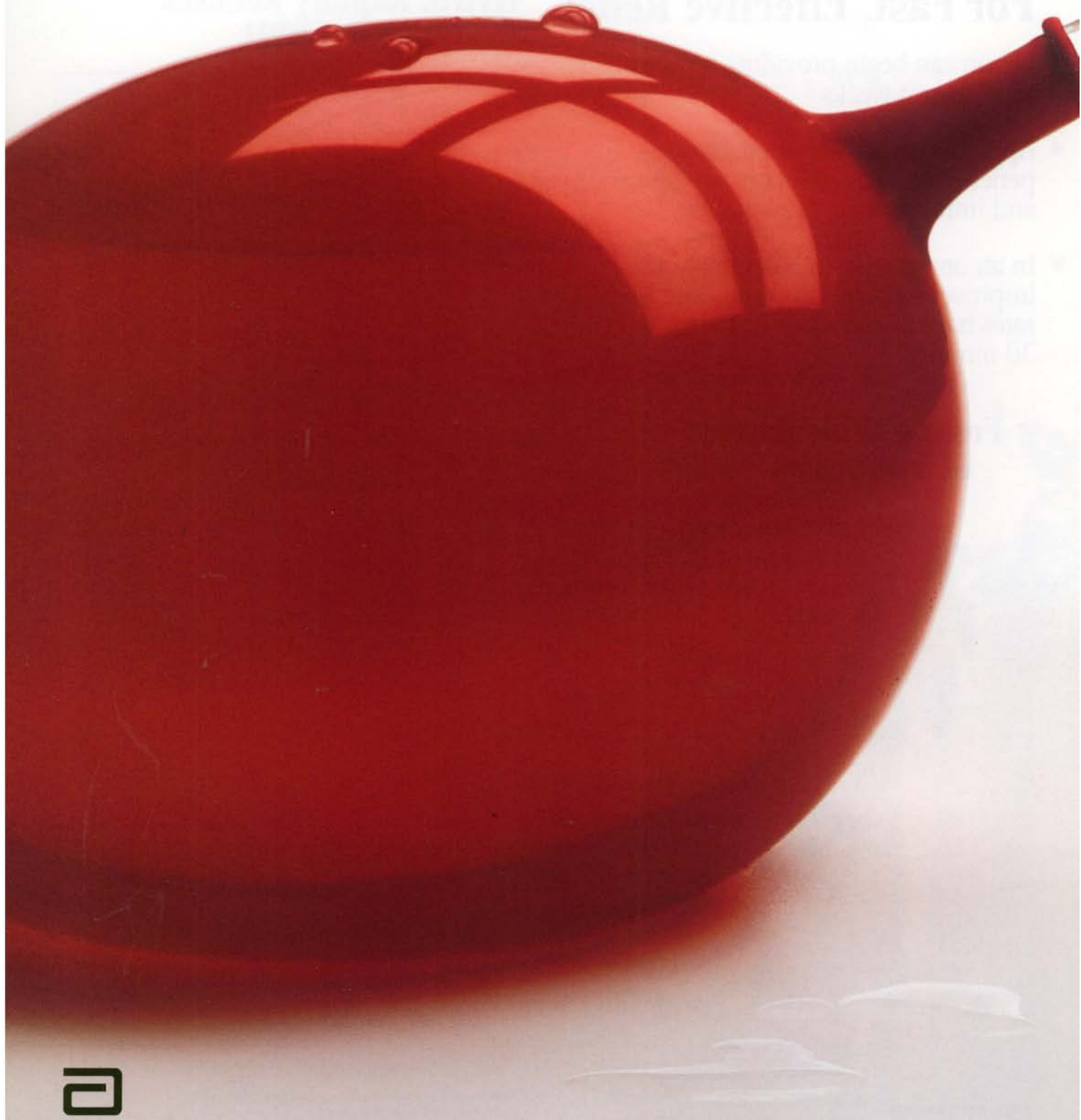
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**HYTRIN**® 1 mg,  
2 mg,  
5 mg,  
10 mg  
TABLETS  
(terazosin HCl)

*For fast, effective relief*

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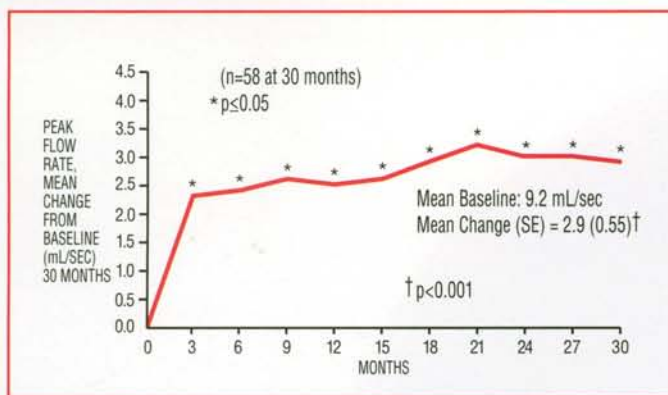
New Indication

# Free the Flow



## For Fast, Effective Relief

### Hytrin improves peak flow rates<sup>1,2</sup>

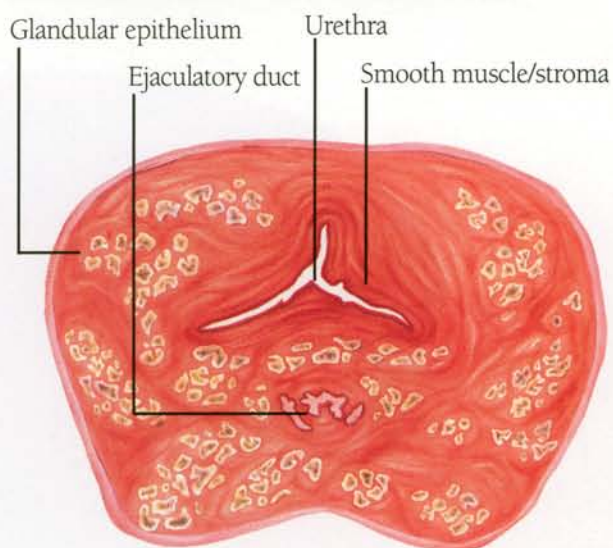


Change in peak flow rates with Hytrin vs baseline. Improvements were statistically significant at all points of measurement.<sup>2</sup>

### Hytrin Relaxes Prostatic Smooth Muscle

- Symptomatic BPH has two underlying components:<sup>1,3</sup>
  - **Static** (increased prostate size)
  - **Dynamic** (increased smooth muscle tone)
- Prostate size does not correlate with symptom severity.<sup>1</sup>

### Smooth muscle surrounds the urethra<sup>3,4</sup>



- Hytrin relaxes smooth muscle tone of the prostate and bladder neck, thereby relieving the symptoms of BPH.<sup>5-7</sup>

Begin Prescribing Hytrin

**HYTRIN**® 1 mg,  
2 mg,  
5 mg,  
10 mg  
TABLETS  
(terazosin HCl)

*For fast, effective relief*

Please see brief summary of prescribing information for Hytrin on last page of this advertisement.



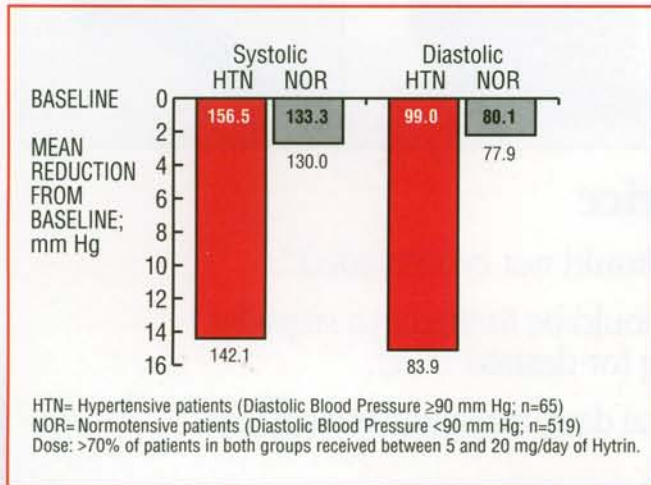
New Indication

# Relieve the Pre



# Pressures of BPH

## Well-Tolerated Therapy



- In BPH patients, the mean diastolic blood pressure reductions were  $-15.1$  mm Hg in hypertensives;  $-2.2$  mm Hg in normotensives;  $-1.8$  mm Hg in controlled hypertensives.<sup>2</sup>
- Hytrin, like other  $\alpha_1$ -blockers, can cause marked lowering of blood pressure, especially postural hypotension and syncope.<sup>1</sup>
- Caution should be observed when Hytrin tablets are administered concomitantly with other antihypertensive agents, especially the calcium channel blocker verapamil, to avoid the possibility of developing significant hypotension. Dosage reduction and retitration of either agent may be necessary.<sup>1</sup>

- Discontinuation due to adverse events was not significantly different from that of placebo.<sup>1</sup>
- Adverse events that occurred significantly more often with Hytrin than with placebo were dizziness (9.1%), asthenia (7.4%), postural hypotension (3.9%), somnolence (3.6%), nasal congestion/rhinitis (1.9%), and impotence (1.6%).<sup>1</sup>
- Incidence of syncope (0.6%) was not significantly different from that of placebo.<sup>1</sup>
- Prior to starting therapy, patients should be screened for prostate cancer. Hytrin had no significant effect on PSA.<sup>1</sup>

Begin Prescribing Hytrin  
**HYTRIN**® 1 mg,  
2 mg,  
5 mg,  
10 mg  
TABLETS  
(terazosin HCl)

*For fast, effective relief*

Please see brief summary of prescribing information for Hytrin on last page of this advertisement.

New Indication

# Fast, Effective Relief



## Once a Day — One Price

- Initial dose: 1 mg at bedtime, should not be exceeded.
- Subsequent once-daily doses should be titrated in a stepwise fashion to 2 mg, 5 mg, or 10 mg for desired relief.
- If Hytrin is discontinued for several days, reinstitute therapy by using the initial dosing regimen.
- Hytrin, like other alpha<sub>1</sub>-blockers, can cause marked lowering of blood pressure. Monitor blood pressure during initial administration or retitration to minimize the risk of hypotension and syncope.<sup>1</sup>
- All tablet strengths are identically priced.
- Call 1-800-ABBOTT-5 to receive the Hytrin Free Start™ sample program.

References

1. Hytrin package insert, Abbott Laboratories. 2. Data on file, Abbott Laboratories. 3. Caine M. *Urology*. 1988;32(suppl 6):16-20. 4. McNeal JE. The zonal anatomy of the prostate. *The Prostate*. 1981;2:35-49. 5. Lepor H, Henry D, Laddu AR. The efficacy and safety of terazosin for the treatment of symptomatic BPH. *The Prostate*. 1991;18:345-355. 6. Lepor H, Meretyk S, Knapp-Moloney G. The safety, efficacy and compliance of terazosin therapy for benign prostatic hyperplasia. *J Urol*. 1992;147:1554-1557. 7. Lepor H. Role of long-acting selective alpha-1 blockers in the treatment of benign prostatic hyperplasia. *Urol Clin North Am*. 1990;17:651-659.

Begin Prescribing Hytrin  
**HYTRIN**® 1 mg,  
2 mg,  
5 mg,  
10 mg  
TABLETS  
(terazosin HCl)

*For fast, effective relief*

Please see brief summary of prescribing information for Hytrin on last page of this advertisement.

## BRIEF SUMMARY FOR BENIGN PROSTATIC HYPERPLASIA (BPH) CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION

HYTRIN® (terazosin hydrochloride)

### INDICATIONS AND USAGE

For the treatment of symptomatic benign prostatic hyperplasia (BPH). There is a rapid response, with approximately 70% of patients experiencing an increase in urinary flow and improvement in symptoms of BPH when treated with HYTRIN. The long-term effects of HYTRIN on the incidence of surgery, acute urinary obstruction or other complications of BPH are yet to be determined.

### CONTRAINDICATIONS

Patients known to be hypersensitive to terazosin hydrochloride.

### WARNINGS

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

HYTRIN tablets, like other alpha-adrenergic blocking agents, can cause marked lowering of blood pressure, especially postural hypotension, and syncope in association with the first dose or first few days of therapy. A similar effect can be anticipated if therapy is interrupted for several days and then restarted. Syncope has also been reported with other alpha-adrenergic blocking agents in association with rapid dosage increases or the introduction of another antihypertensive drug. Syncope is believed to be due to an excessive postural hypotensive effect, although occasionally the syncope episode has been preceded by a bout of severe supraventricular tachycardia with heart rates of 120-160 beats per minute. Additionally, the possibility of the contribution of hemodilution to the symptoms of postural hypotension should be considered.

To decrease the likelihood of syncope or excessive hypotension, treatment should always be initiated with a 1 mg dose of HYTRIN tablets, given at bedtime. The 2 mg, 5 mg and 10 mg tablets are not indicated as initial therapy. Dosage should then be increased slowly, according to recommendations in the Dosage and Administration section and additional antihypertensive agents should be added with caution. The patient should be cautioned to avoid situations, such as driving or hazardous tasks, where injury could result should syncope occur during initiation of therapy.

In early investigational studies, where increasing single doses up to 7.5 mg were given at 3 day intervals, tolerance to the first dose phenomenon did not necessarily develop and the "first-dose" effect could be observed at all doses. Syncope episodes occurred in 3 of the 14 subjects given HYTRIN tablets at doses of 2.5, 5 and 7.5 mg, which are higher than the recommended initial dose; in addition, severe orthostatic hypotension (blood pressure falling to 50/0 mmHg) was seen in two others and dizziness, tachycardia, and lightheadedness occurred in most subjects. These adverse effects all occurred within 90 minutes of dosing.

In three placebo-controlled BPH studies 1, 2, and 3, the incidence of postural hypotension in the terazosin treated patients was 5.1%, 5.2%, and 3.7% respectively.

If syncope occurs, the patient should be placed in a recumbent position and treated supportively as necessary. There is evidence that the orthostatic effect of HYTRIN tablets is greater, even in chronic use, shortly after dosing. The risk of the events is greatest during the initial seven days of treatment, but continues at all time intervals.

### PRECAUTIONS

#### General:

#### Prostatic Cancer

Carcinoma of the prostate and BPH cause many of the same symptoms. These two diseases frequently co-exist. Therefore, patients thought to have BPH should be examined prior to starting HYTRIN therapy to rule out the presence of carcinoma of the prostate.

#### Orthostatic Hypotension

While syncope is the most severe orthostatic effect of HYTRIN tablets (see Warnings), in BPH clinical trials, 21% of the patients experienced one or more of the following: dizziness, hypotension, postural hypotension, syncope, and vertigo. Patients with occupations in which such events represent potential problems should be treated with particular caution.

#### Information for Patients:

Patients should be made aware of the possibility of syncope and orthostatic symptoms, especially at the initiation of therapy, and to avoid driving or hazardous tasks for 12 hours after the first dose, after a dosage increase and after interruption of therapy when treatment is resumed. They should be cautioned to avoid situations where injury could result should syncope occur during initiation of HYTRIN therapy. They should also be advised of the need to sit or lie down when symptoms of lowered blood pressure occur, although these symptoms are not always orthostatic, and to be careful when rising from a sitting or lying position. If dizziness, lightheadedness, or palpitations are bothersome they should be reported to the physician, so that dose adjustment can be considered.

Patients should also be told that drowsiness or somnolence can occur with HYTRIN tablets, requiring caution in people who must drive or operate heavy machinery.

#### Laboratory Tests:

Small but statistically significant decreases in hematocrit, hemoglobin, white blood cells, total protein and albumin

were observed in controlled clinical trials. These laboratory findings suggested the possibility of hemodilution. Treatment with HYTRIN for up to 24 months had no significant effect on prostate specific antigen (PSA) levels.

#### Drug Interactions:

In controlled trials, HYTRIN tablets have been added to diuretics, and several beta-adrenergic blockers; no unexpected interactions were observed. HYTRIN tablets have also been used in patients on a variety of concomitant therapies; while these were not formal interaction studies, no interactions were observed. HYTRIN tablets have been used concomitantly in at least 50 patients on the following drugs or drug classes: 1) analgesic/anti-inflammatory (e.g., acetaminophen, aspirin, codeine, ibuprofen, indomethacin); 2) antibiotics (e.g., erythromycin, trimethoprim and sulfamethoxazole); 3) anticholinergic/sympathomimetics (e.g., phenylephrine hydrochloride, phenylpropranolamine hydrochloride, pseudoephedrine hydrochloride); 4) antiparkinsonian (e.g., allopurinol); 5) antihistamines (e.g., chlorpheniramine); 6) cardiovascular agents (e.g., atenolol, hydrochlorothiazide, methylclothiazide, propranolol); 7) corticosteroids; 8) gastrointestinal agents (e.g., antacids); 9) hypoglycemics; 10) sedatives and tranquilizers (e.g., diazepam).

#### Use with Other Drugs:

In a study (n=24) where terazosin and verapamil were administered concomitantly, terazosin's mean AUC<sub>0-24</sub> increased 11% after the first verapamil dose and after 3 weeks of verapamil treatment it increased by 24% with associated increases in C<sub>max</sub> (25%) and C<sub>min</sub> (32%) means. Terazosin mean T<sub>max</sub> decreased from 1.3 hours to 0.8 hours after 3 weeks of verapamil treatment. Statistically significant differences were not found in the verapamil level with and without terazosin. In a study (n=6) where terazosin and captopril were administered concomitantly, plasma disposition of captopril was not influenced by concomitant administration of terazosin and terazosin maximum plasma concentrations increased linearly with dose at steady state after administration of terazosin plus captopril (see Dosage and Administration).

#### Carcinogenesis, Mutagenesis, Impairment of Fertility:

HYTRIN was devoid of mutagenic potential when evaluated *in vivo* and *in vitro* (the Ames test, *in vivo* cytogenetics, the dominant lethal test in mice, *in vivo* Chinese hamster chromosome aberration test and V79 forward mutation assay).

HYTRIN, administered in the feed to rats at doses of 8, 40, and 250 mg/kg/day for two years, was associated with a statistically significant increase in benign adrenal medullary tumors of male rats exposed to the 250 mg/kg dose. This dose is 695 times the maximum recommended human dose of 20 mg/55 kg patient. Female rats were unaffected. HYTRIN was not oncogenic in mice when administered in feed for 2 years at a maximum tolerated dose of 32 mg/kg/day. The absence of mutagenicity in a battery of tests, of tumorigenicity of any cell type in the mouse carcinogenicity assay, of increased total tumor incidence in either species, and of proliferative adrenal lesions in female rats, suggests a male rat species-specific event. Numerous other diverse pharmaceutical and chemical compounds have also been associated benign adrenal medullary tumors in male rats without supporting evidence for carcinogenicity in man.

The effect of HYTRIN on fertility was assessed in a standard fertility/reproductive performance study in which male and female rats were administered oral doses of 8, 30 and 120 mg/kg/day. Four of 20 male rats given 30 mg/kg and five of 19 male rats given 120 mg/kg failed to sire a litter. Testicular weights and morphology were unaffected by treatment. Vaginal smears at 30 and 120 mg/kg/day, however, appeared to contain less sperm than smears from control matings and good correlation was reported between sperm count and subsequent pregnancy.

Oral administration of HYTRIN for one or two years elicited a statistically significant increase in the incidence of testicular atrophy in rats exposed to 40 and 250 mg/kg/day, but not in rats exposed to 8 mg/kg/day (> 20 times the maximum recommended human dose). Testicular atrophy was also observed in dogs dosed with 300 mg/kg/day (> 800 times the maximum recommended human dose) for three months but not after one year when dosed with 20 mg/kg/day. This lesion has also been seen with Minipress®, another (marketed) selective-alpha-1 blocking agent.

### ADVERSE REACTIONS

#### Benign Prostatic Hyperplasia

The incidence of treatment-emergent adverse events has been ascertained from clinical trials conducted worldwide. All adverse events reported during these trials were recorded as adverse reactions. The incidence rates presented below are based on combined data from six placebo-controlled trials involving once-a-day administration of terazosin at doses ranging from 1 to 20 mg.

Adverse events for patients in these trials when the incidence rate in the terazosin group was at least 1% and was greater than that for the placebo group, or where the reaction is of clinical interest (TERAZOSIN - PLACEBO) are: asthenia (7.4% - 3.3%), flu syndrome (2.4% - 1.7%), headache (4.9% - 5.8%) hypotension (0.6%-0.6%), palpitations (0.9% - 1.1%), postural hypotension (3.9% - 0.8%), syncope (0.6% - 0.0%), nausea (1.7% - 1.1%), peripheral edema (0.9% - 0.3%), weight gain (0.5% - 0.0%), dizziness (9.1% - 4.2%), somnolence (3.6% - 1.9%), vertigo (1.4% - 0.3%), dyspnea (1.7% - 0.8%), nasal congestion/thinitis (1.9% - 0.0%), blurred vision/ambly-

opia (1.3% - 0.6%), impotence (1.6% - 0.6%), and urinary tract infection (1.3% - 3.9%). Asthenia includes the terms weakness, tiredness, lassitude, and fatigue. Asthenia, postural hypotension, dizziness, somnolence, nasal congestion/rhinitis, and impotence were the only events that were significantly (p<0.05) more common in patients receiving terazosin than in patients receiving placebo. The incidence of urinary tract infection was significantly lower in the patients receiving terazosin than in patients receiving placebo. An analysis of the incidence rate of hypotensive adverse events (see PRECAUTIONS) adjusted for the length of drug treatment has shown that the risk of the events is greatest during the initial seven days of treatment, but continues at all time intervals. Additional adverse events have been reported, but these are, in general, not distinguishable from symptoms that might have occurred in the absence of exposure to terazosin. The safety profile of patients treated in the long-term open-label study was similar to that observed in the controlled studies. The adverse events were usually transient and mild or moderate in intensity, but sometimes were serious enough to interrupt treatment. In the placebo-controlled clinical trials, the rates of premature termination due to adverse events were not statistically different between the placebo and terazosin groups. The adverse events that were bothersome, as judged by their being reported as reasons for discontinuation of therapy by at least 0.5% of the terazosin group and being reported more often than in the placebo group (TERAZOSIN - PLACEBO) are: fever (0.5% - 0.0%), headache (1.1% - 0.8%), postural hypotension (0.5% - 0.0%), syncope (0.5% - 0.0%), nausea (0.5% - 0.3%), dizziness (2.0% - 1.1%), vertigo (0.5% - 0.0%), dyspnea (0.5% - 0.3%), blurred vision/amblyopia (0.6% - 0.0%), and urinary tract infection (0.5% - 0.3%). Post-marketing experience indicates that in rare instances patients may develop allergic reactions, including anaphylaxis, following administration of HYTRIN tablets.

### OVERDOSAGE

Should overdosage of HYTRIN lead to hypotension, support of the cardiovascular system is of first importance. Restoration of blood pressure and normalization of heart rate may be accomplished by keeping the patient in the supine position. If this measure is inadequate, shock should first be treated with volume expanders. If necessary, vasopressors should then be used and renal function should be monitored and supported as needed. Laboratory data indicate that HYTRIN is highly protein bound; therefore, dialysis may not be of benefit.

### DOSAGE AND ADMINISTRATION

If HYTRIN administration is discontinued for several days, therapy should be reinstated using the initial dosing regimen.

#### Benign Prostatic Hyperplasia:

##### Initial Dose:

1 mg at bedtime is the starting dose for all patients, and this dose should not be exceeded as an initial dose. Patients should be closely followed during initial administration in order to minimize the risk of severe hypotensive response.

##### Subsequent Doses:

The dose should be increased in a stepwise fashion to 2 mg, 5 mg, or 10 mg once daily to achieve the desired improvement of symptoms and/or flow rates. Doses of 10 mg once daily are generally required for the clinical response. Therefore, treatment with 10 mg for a minimum of 4-6 weeks may be required to assess whether a beneficial response has been achieved. Some patients may not achieve a clinical response despite appropriate titration. Although some additional patients responded at a 20 mg daily dose, there was an insufficient number of patients studied to draw definitive conclusions about this dose. There are insufficient data to support the use of higher doses for those patients who show inadequate or no response to 20 mg daily.

##### Use with Other Drugs:

Caution should be observed when HYTRIN tablets are administered concomitantly with other antihypertensive agents, especially the calcium channel blocker verapamil, to avoid the possibility of developing significant hypotension. When using HYTRIN tablets and other antihypertensive agents concomitantly, dosage reduction and retitration of either agent may be necessary (see Precautions).

Ref. 03-4434-R7-BPH Revised: September 1993

 **Abbott Laboratories**  
North Chicago, IL 60064

**NEW LOW-DOSE**  
**LOZOL<sup>®</sup> 1.25<sup>MG</sup>**  
**INDAPAMIDE TABLETS**

# A LITTLE MEANS A LOT

## TO THE OLDER PATIENT WITH MILD TO MODERATE HYPERTENSION

Efficacy comparable to higher doses of indapamide  
with the benefits of a lower once-daily dose<sup>1\*</sup>

Favorable metabolic profile<sup>†</sup> — no effect on lipids,  
only 2% incidence of clinical hypokalemia<sup>‡</sup>

Less patient discontinuation than with placebo

Side-effect profile compatible with other  
antihypertensive agents

Please see brief summary of prescribing information on this page.



**LOZOL<sup>®</sup> (indapamide) 1.25 mg and 2.5 mg tablets**

**BRIEF SUMMARY**

**INDICATIONS:** LOZOL (indapamide) is indicated for the treatment of hypertension, alone or in combination with other antihypertensive drugs, and for the treatment of salt and fluid retention associated with congestive heart failure.

**Usage in Pregnancy:** See PRECAUTIONS.

**CONTRAINDICATIONS:** Anuria, hypersensitivity to indapamide or other sulfonamide-derived drugs.

**WARNINGS:** Infrequent cases of severe hyponatremia, accompanied by hypokalemia, have been reported with 2.5 mg and 5.0 mg indapamide primarily in elderly females. Symptoms were reversed by electrolyte replenishment. Hyponatremia considered possibly clinically significant (<125 mEq/L) has not been observed in clinical trials with the 1.25 mg dosage (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, especially in patients who are vomiting excessively or receiving parenteral 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 hyponatremia, hypochloremic alkalosis, or hypokalemia. The risk of hypokalemia secondary to diuresis and natriuresis is increased with larger doses, with brisk diuresis, with severe cirrhosis, 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 toxic effects of digitalis, such as increased ventricular irritability.

Dilutional hyponatremia may occur in edematous patients; appropriate treatment is usually water restriction. In actual salt depletion, appropriate replacement is the treatment of choice. Chloride deficit is usually mild, not requiring specific treatment except in extraordinary circumstances (iver, renal disease). Hyponatremia may occur, and frank popt may be precipitated in certain patients receiving indapamide. Serum concentrations of uric acid should be monitored periodically.

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

Use with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance may precipitate hepatic coma. Latent diabetes may become manifest and insulin requirements in diabetic patients may be altered during thiazide administration. A mean increase in glucose of 6.47 mg/dL was observed in patients treated with indapamide 1.25 mg, which was not considered clinically significant in these trials. Serum concentrations of glucose should be monitored routinely during treatment with indapamide. Calcium excretion is decreased by diuretics pharmacologically related to indapamide.

After six to eight weeks of indapamide 1.25 mg treatment and in long-term studies of hypertensive patients with higher doses of indapamide, however, serum concentrations of calcium increased only slightly with indapamide. 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. Thiazides have exacerbated or activated systemic lupus erythematosus. Consider this possibility with indapamide.

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

**ADVERSE REACTIONS:** Most adverse effects have been mild and transient. From Phase III placebo-controlled studies with indapamide 1.25 mg, adverse reactions with ≥5% cumulative incidence: headache, irritation, pain, back pain, dizziness, thirst, <5% cumulative incidence: asthenia, flu syndrome, abdominal pain, chest pain, constipation, diarrhea, dyspepsia, nausea, peripheral edema, nervousness, hypertension, cough, pharyngitis, sinusitis, conjunctivitis. All other clinical adverse reactions occurred at an incidence of <1%. In controlled clinical trials of six to eight weeks in duration, 20% of patients receiving indapamide 1.25 mg, 61% of patients receiving indapamide 5.0 mg, and 80% of patients receiving indapamide 10.0 mg had at least one potassium value below 3.4 mEq/L. In the indapamide 1.25 mg group, about 40% of those patients who reported hypokalemia as a laboratory adverse event returned to normal serum potassium values without intervention. Hypokalemia with concomitant clinical signs or symptoms occurred in 2% of patients receiving indapamide 1.25 mg. From Phase III placebo-controlled studies and long-term controlled clinical trials with LOZOL 2.5 mg or 5.0 mg, adverse reactions with ≥ 5% cumulative incidence: headache, dizziness, fatigue, weakness, loss of energy, lethargy, tiredness or malaise, muscle cramps or spasm or numbness of the extremities, nervousness, tension, anxiety, irritability or agitation, <5% cumulative incidence: lightheadedness, drowsiness, vertigo, insomnia, depression, blurred vision, constipation, nausea, vomiting, diarrhea, gastric irritation, abdominal pain or cramps, anorexia, orthostatic hypotension, premature ventricular contractions, irregular heart beat, palpitations, frequency of urination, nocturia, polyuria, rash, hives, pruritus, vasculitis, impotence or reduced libido, minorthea, flushing, hypernatremia, hyperglycemia, hypokalemia, hypochloremia, increase in serum BUN

or creatinine, glycosuria, weight loss, dry mouth, tingling 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 5.0 mg q.d. In long-term controlled clinical trials comparing the hypokalemic effects of daily doses of indapamide and hydrochlorothiazide, however, 47% of patients receiving indapamide 2.5 mg, 72% of patients receiving indapamide 5.0 mg, and 44% of patients receiving hydrochlorothiazide 50 mg had at least one potassium value (out of a total of 11 taken during the study) below 3.5 mEq/L. In the indapamide 2.5 mg group, over 50% of those patients returned to normal serum potassium values without intervention. Other adverse reactions reported with antihypertensive diuretics are intrahepatic cholestatic jaundice, sialadenitis, xanthopsia, photosensitivity, purpura, bulous eruptions, Stevens-Johnson syndrome, necrotizing angitis, fever, respiratory distress (including pneumonitis), anaphylactic reactions, agranulocytosis, leukopenia, thrombocytopenia, aplastic anemia.

**CAUTION:** Federal (U.S.A.) law prohibits dispensing without prescription. Keep tightly closed. Store at controlled room temperature, 15°-30°C (59°-86°F). Avoid excessive heat. Dispense in tight containers as defined in USP.

See product circular for full prescribing information.

Revised: April 1993

\* In a controlled clinical trial, at 8 weeks the change in supine diastolic BP with 5 mg of indapamide was -10.8 mm Hg vs. -8.8 mm Hg with LOZOL 1.25 mg.

† Because of the diuretic effects of LOZOL 1.25, changes in certain electrolytes and blood chemistries can occur. Serum electrolytes and blood chemistries should therefore be monitored.

‡ 19.6% of patients had values less than 3.4 mEq/L. Only 7.5% had potassium levels below 3.2 mEq/L and less than 1% fell below 3.0 mEq/L. Metabolic changes at higher doses of indapamide may be greater.

Reference: 1. Data on file, Rhône-Poulenc Rorer Pharmaceuticals Inc.

**rPr RHÔNE-POULENC RORER**

RHÔNE-POULENC RORER PHARMACEUTICALS INC.  
500 ARCOLA ROAD  
COLLEGEVILLE, PA 19342

Product of Servier Research Institute  
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LZ70M793(1)A 7/93 FC# 93-R70

# For some of your patients, this list could be a life saver.


- Feelings of sadness or irritability
- Loss of interest or pleasure in activities once enjoyed
- Changes in weight or appetite
- Changes in sleeping pattern
- Feeling guilty, hopeless or worthless
- Inability to concentrate, remember things or make decisions
- Fatigue or loss of energy
- Restlessness or decreased activity
- Complaints of physical aches and pains for which no medical explanation can be found
- Thoughts of death or suicide

This list of symptoms is being featured in a print ad as part of the National Mental Health Association's (NMHA) National Public Education Campaign on Clinical Depression. The campaign communicates these basic messages: Clinical depression is a medical illness. Effective treatments are available. See a doctor. A free booklet on clinical depression is available by calling NMHA at 1-800-228-1114.

The National Public Education Campaign on Clinical Depression is being co-sponsored by the American Medical Association along with nine other national professional health and mental health associations.



**National  
Mental Health  
Association**

**Ismo**<sup>®</sup> (isosorbide mononitrate) 20 mg tablets 

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

#### Indications and Usage

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

#### Clinical Pharmacology

Isosorbide mononitrate is the major active metabolite of isosorbide dinitrate; most of the clinical activity of the dinitrate comes from the mononitrate. Ismo is not subject to first-pass metabolism in the liver and the absolute bioavailability of isosorbide mononitrate from Ismo tablets is nearly 100%. The rate of clearance of Ismo is the same in healthy young adults, in patients with various degrees of renal, hepatic, or cardiac dysfunction, and in the elderly. Several well-controlled studies have demonstrated that active nitrates were indistinguishable from placebo after 24 hours (or less) of continuous therapy due to the development of tolerance. Only after nitrates are absent from the body for several hours is their antianginal efficacy restored.

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

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

#### Contraindications

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

#### Warnings

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

#### Precautions

##### GENERAL

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

Nitrates may aggravate angina caused by hypertrophic cardiomyopathy.

##### INFORMATION FOR PATIENTS

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

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

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

##### DRUG INTERACTIONS

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

Marked symptomatic orthostatic hypotension has been reported when calcium channel blockers and organic nitrates were used in combination. Dose adjustments of either class of agents may be necessary.

##### CARCINOGENESIS, MUTAGENESIS, AND IMPAIRMENT OF FERTILITY

No carcinogenic effects were observed in mice or rats exposed to oral Ismo, nor were adverse effects on rat fertility observed.

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

Dose	6 Controlled U.S. Studies		92 Clinical Studies
	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

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

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

##### Overdosage

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

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

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

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

##### DOSAGE AND ADMINISTRATION

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

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

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

This Brief Summary is based upon the current Ismo direction circular, CI 4130-2, Revised October 20, 1992.

#### References: 1. Data on file, Wyeth-Ayerst Laboratories, Protocol 12.

2. Friedman RG, et al: Comparative clinical trial of isosorbide mononitrate and isosorbide dinitrate in patients with stable angina pectoris. *J Invas Cardiol* 1992;4:319-329.

A-H ROBINS

BOEHRINGER  
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# Ismo<sup>®</sup>

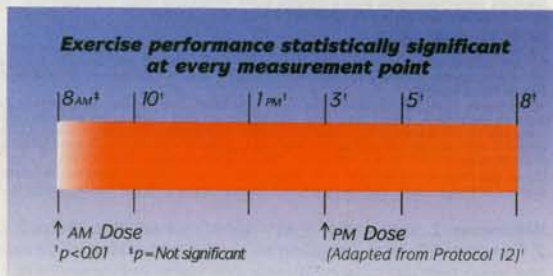
20 mg tablets

(isosorbide mononitrate)

## Activity You Can Count On



### Antianginal activity during the active hours<sup>1\*</sup>



This study measured improvement in exercise performance to moderately severe anginal pain in patients given Ismo 20 mg (N = 56) or placebo (N = 60) dosed at 8 AM and 3 PM for 2 weeks following a 1-week washout period.

### Effective day after day<sup>2</sup>

■ Ismo patients were able to exercise at least as well on Day 14 as on Day 1

### Predictable pharmacokinetics

- Nearly 100% bioavailable
- No first-pass hepatic metabolism
- Consistent blood levels from patient to patient

<sup>2</sup>Ismo is active for at least 12 hours after the first dose (ie, 5 hours after the second dose) of each day. The dosing recommendation for Ismo is 20 mg, twice daily, 7 hours apart (with a 17-hour dose-free interval) to maintain efficacy and to avoid tolerance.

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

Please see brief summary of prescribing information on adjacent page.

F O R C H R

**EXPECT**



**REDUCTION  
IN MORNING  
STIFFNESS**

Color-enhanced 3-D CT images and MRI supplied by  
David W. Stoller, MD, of California Advanced Imaging.



O N I C   A R T H R I T I S

# NOTHING LESS



**REDUCTION IN  
JOINT PAIN AND  
TENDERNESS**



**INCREASED  
RANGE  
OF MOTION**



**FAVORABLE  
SAFETY PROFILE**

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.

**EXPECT SUCCESS FROM**

**NAPROSYN<sup>®</sup>**  
**(NAPROXEN) 500 mg tablets**

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



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## NAPROSYN<sup>®</sup>

(NAPROXEN) 500 mg tablets

### Brief Summary:

**Contraindications:** Patients who have had allergic reactions to NAPROSYN, ANAPROX or ANAPROX DS or in whom aspirin or other NSAIDs induce the syndrome of asthma, rhinitis, and nasal polyps. Because anaphylactic reactions usually occur in patients with a history of such reactions, question patients for asthma, nasal polyps, urticaria, and hypotension associated with NSAIDs before starting therapy. If such symptoms occur, discontinue the drug. **Warnings:** Serious GI toxicity such as bleeding, ulceration, and perforation can occur at any time, with or without warning symptoms, in patients treated chronically with NSAIDs. Remain alert for ulceration and bleeding in such patients even in the absence of previous GI tract symptoms. In clinical trials, symptomatic upper GI ulcers, gross bleeding or perforation appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. Inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take if they occur. Studies have not identified any subset of patients not at risk of developing peptic ulceration and bleeding. Except for a prior history of serious GI events and other risk factors known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than others and most spontaneous reports of fatal GI events are in this population. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity. **Precautions:** DO NOT GIVE NAPROSYN (NAPROXEN) CONCOMITANTLY WITH ANAPROX<sup>®</sup> (NAPROXEN SODIUM) OR ANAPROX<sup>®</sup> DS (NAPROXEN SODIUM) SINCE THEY BOTH CIRCULATE IN PLASMA AS THE NAPROXEN ANION. Acute interstitial nephritis with hematuria, proteinuria, and nephrotic syndrome has been reported. Patients with impaired renal function, heart failure, liver dysfunction, patients taking diuretics, and the elderly are at greater risk of overt renal decompensation. If this occurs, discontinue 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 lowest effective dose in the elderly or in patients with chronic alcoholic liver disease or cirrhosis. With NSAIDs, borderline elevations of liver tests may occur in up to 15% of patients. They may progress, remain unchanged, or be transient with continued therapy. Elevations of SGPT or SGOT occurred in controlled clinical trials in less than 1% of patients. Severe hepatic reactions, including jaundice and fatal hepatitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g., eosinophilia or rash), discontinue therapy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including adrenal insufficiency and exacerbation of arthritis symptoms. Determine hemoglobin values periodically for patients with initial values of 10 grams or less who receive long-term therapy. Peripheral edema has been reported. Therefore, use with caution in patients with fluid retention, hypertension or heart failure. The drug's antipyretic and anti-inflammatory activities may reduce fever and inflammation, diminishing their diagnostic value. Conduct ophthalmic studies if any change or disturbance in vision occurs. For patients with restricted sodium intake, note that the suspension contains 8 mg/mL of sodium. **Information for Patients:** Side effects of NSAIDs can cause discomfort and, rarely, there are more serious side effects, such as GI bleeding, which may result in hospitalization and even fatal outcomes. Physicians may wish to discuss with patients the potential risks and likely benefits of NSAID treatment, particularly when they are used for less serious conditions where treatment without NSAIDs may be an acceptable alternative. Patients should use caution for activities requiring alertness if they experience drowsiness, dizziness, vertigo or depression during therapy. Because of the potential for serious GI tract ulceration and bleeding can occur without warning symptoms, follow chronically treated patients for signs and symptoms of these and inform them of the importance of this follow-up. **Drug Interactions:** Use caution when giving concomitantly with coumarin-type anticoagulants; a hydantoin, sulfonamide or sulfonylurea; furosemide; lithium; beta-blockers; probenecid; or methotrexate. **Drug/Laboratory Test Interactions:** The drug may decrease platelet aggregation and prolong bleeding time or increase urinary values for 17-ketogenic steroids. Temporarily stop therapy for 72 hours before doing adrenal function tests. The drug may interfere with urinary assays of 5HIAA. **Carcinogenesis:** A 2-year rat study showed no evidence of carcinogenicity. **Pregnancy:** Category B. Do not use during pregnancy unless clearly needed. Avoid use during late pregnancy. **Nursing Mothers:** Avoid use in nursing mothers. **Pediatric Use:** Single doses of 2.5-5 mg/kg, with total daily dose not exceeding 15 mg/kg/day, are safe in children over 2 years of age. **Adverse Reactions:** In a study, GI reactions were more frequent and severe in rheumatoid arthritis patients on 1,500 mg/day than in those on 750 mg/day. In studies in children with juvenile arthritis, rash and prolonged bleeding times were more frequent, GI and CNS reactions about the same, and other reactions less frequent than in adults. Incidence Greater Than 1%; Probable Causal Relationship: GI: The most frequent complaints related to the GI tract: constipation; heartburn; abdominal pain; nausea; dyspepsia, diarrhea, stomatitis. CNS: headache; dizziness; drowsiness; light-headedness; vertigo. Dermatologic: itching (pruritus); skin eruptions; ecchymoses; sweating, purpura. Special Senses: tinnitus; hearing disturbances, visual disturbances. Cardiovascular: edema; dyspnea; palpitations. General: thirst. Incidence Less Than 1%; Probable Causal Relationship: GI: abnormal liver function tests, colitis, GI bleeding and/or perforation, hematemesis, jaundice, melena, peptic ulceration with bleeding and/or perforation, vomiting. Renal: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis. Hematologic: agranulocytosis, eosinophilia, granulocytopenia, leukopenia, thrombocytopenia. CNS: depression, dream abnormalities, inability to concentrate, insomnia, malaise, myalgia and muscle weakness. Dermatologic: alopecia, photosensitive dermatitis, skin rashes. Special Senses: hearing impairment. Cardiovascular: congestive heart failure. Respiratory: eosinophilic pneumonitis. General: anaphylactoid reactions, menstrual disorders, pyrexia (chills and fever). Causal Relationship Unknown: Hematologic: aplastic anemia, hemolytic anemia. CNS: aseptic meningitis, cognitive dysfunction. Dermatologic: epidermal necrolysis, erythema multiforme, photosensitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa, Stevens-Johnson syndrome, urticaria. GI: non-peptic GI ulceration, ulcerative stomatitis. Cardiovascular: vasculitis. General: angioneurotic edema, hyperglycemia, hypoglycemia. **Overdosage:** May have drowsiness, heartburn, indigestion, nausea, vomiting. A few patients have had seizures. Empty stomach and use usual supportive measures. In animals 0.5 g/kg of activated charcoal reduced plasma levels of naproxen. **Caution:** Federal law prohibits dispensing without prescription. See package insert for full Prescribing Information.

\* Incidence of reported reaction 3%-9%.

Where unmarked, incidence less than 3%.

U.S. patent nos. 3,904,682, 3,998,966 and others.

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Rev. 39 September 1990

# Announcing

The American Medical Association

## Morris Fishbein Fellowship

July 1, 1994 through  
June 30, 1995



Applications are now being taken for the Morris Fishbein Fellowship in Medical Journalism sponsored by the American Medical Association. Physicians interested in making a substantial commitment to medical journalism are invited to apply for this full-time 1-year fellowship program.

**Work With JAMA** The successful candidate will work with the editorial and production staff of The Journal of the American Medical Association in all facets of editing and publishing a major weekly journal. At the completion of the program, it is expected that the candidate will be proficient in manuscript review and selection, issue makeup, copy editing and styling, art and layout of articles, issue planning and managing, in addition to the many other elements of journal publication. He/she will also be conversant with marketing and advertising procedures.

**Publishing** The candidate must have proven writing ability at the time of application, for he/she will be required during the course of the year to prepare articles for publication. Although the fellow will work under the supervision of a physician-editor, ability to work independently is a must.

**Stipend** A stipend of \$40,000 will be provided to the successful candidate to cover the 1-year period.

**Application Forms** For an application blank, please write to Richard M. Glass, MD, Deputy Editor, The Journal of the American Medical Association, 515 N State St, Chicago, IL 60610.

**Deadline for Applying** Completed applications should be forwarded as soon as possible and must be received no later than January 15, 1994.

American Medical Association

Physicians dedicated to the health of America



For your type II diabetes patients not achieving glycemic control with diet and oral hypoglycemic agent therapy...

IT'S NEVER BEEN

EASIER TO

CHANGE

## Novolin 70/30 Prefilled™

70% NPH, Human Insulin Isophane Suspension and  
30% Regular, Human Insulin Injection (recombinant DNA origin)  
In a 1.5ml prefilled syringe

Many type II patients cannot achieve or maintain glycemic control with diet and oral hypoglycemic agents and would be better controlled on insulin.<sup>1</sup> However, patients often have concerns about making the change to traditional insulin-delivery systems.

In a recent study, patients with diabetes were introduced to Novolin Prefilled™. Nine out of 10 patients new to insulin expressed an *improved attitude toward taking insulin and preferred Novolin Prefilled™ to other injection methods* that they had used or heard about; 100% of these patients found Novolin Prefilled™ *easy to use and expressed a desire to continue using it.*<sup>2</sup>

To learn more about the latest innovation in diabetes care, call 1-800-727-6500.

WARNING: ANY CHANGE IN INSULIN SHOULD BE MADE CAUTIOUSLY AND ONLY UNDER MEDICAL SUPERVISION.

References: 1. American Diabetes Association Inc. (1988); Physician's Guide to Non-insulin Dependent (Type II) Diabetes—Diagnosis and Treatment, 2nd ed. 2. Plevin S, Sadur C. Use of a prefilled insulin syringe (Novolin Prefilled™) by patients with diabetes. *Clin Ther.* 1993;15:423-431.

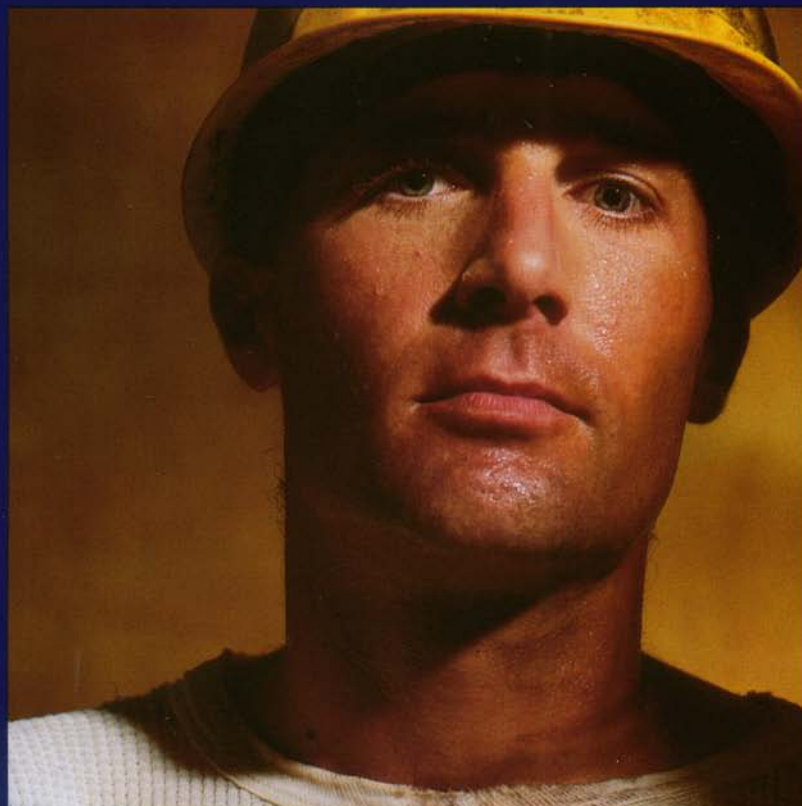


Novolin 70/30 Prefilled™ shown with PenNeedle® disposable needle attached. PenNeedle® sold separately.

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“My medicine helps,  
but I still can't function fully at my job...  
I've just learned to live with it.”



**DO YOU KNOW  
WHAT YOUR  
MIGRAINE PATIENTS  
THINK ABOUT THEIR  
CURRENT TREATMENT?**

# MORE OF YOUR PATIENTS MAY

Because it  
works fast.<sup>1</sup>



The most frequently reported adverse events associated with IMITREX are injection-site reactions (59%), atypical sensations (e.g., tingling, warm/hot sensation) (42%), and dizziness/vertigo (12%). IMITREX is contraindicated in patients with ischemic heart disease, symptoms or signs consistent with ischemic heart disease, or Prinzmetal's angina because of the potential to cause coronary vasospasm. IMITREX is contraindicated in patients

with uncontrolled hypertension because it can give rise to increases in blood pressure (usually small). IMITREX should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. (Please see Precautions.) IMITREX should not be administered to patients with basilar or hemiplegic migraine.

**Reference:** 1. Cady RK, Wendt JK, Kirchner JR, Sargent JD, Rothrock JF, Skaggs H Jr. Treatment of acute migraine with subcutaneous sumatriptan. *JAMA*. June 1991;265:2831-2835.

# BENEFIT FROM IMITREX

Because it works well.<sup>1</sup>

Because it is nonsedating.



SUBCUTANEOUS  
**IMITREX**<sup>TM</sup>  
SUMATRIPTAN  
SUCCINATE

**MIGRAINE RELIEF  
THAT CAN CHANGE  
PATIENTS' LIVES**

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The authors present a simple, logical, and stimulating approach to accurate diagnosis. All who wish to update their knowledge of the application of modern diagnostic thinking and technologic processes will benefit from this book.

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## JOSLIN'S DIABETES MELLITUS, 13th ed.

C. RONALD KAHN, M.D.  
GORDON C. WEIR, M.D.  
(108 contributors). About 1738 pp. (8 1/2 x 11), 339 illus.  
(including 11 in full color), 1994 (Available December 1993),  
\$125.00. (1531-7)

### Angina



#### BASICS

**DESCRIPTION** Symptom complex brought about by myocardial ischemia.

- Classic angina - a heaviness or pressure felt over the precordium, usually triggered by physical exertion or anxiety and relieved by rest
- Angina equivalent - dyspnea, fatigue, nausea, diaphoresis, or pain localized to an atypical location (i.e., jaw) which is brought about by myocardial ischemia and unaccompanied by typical precordial chest pressure

- Variant angina - also referred to as Prinzmetal's angina describes angina occurring at rest or in typical patterns such as after exercise or nocturnally. Prinzmetal's angina is caused by coronary artery spasm and is associated with ECG changes (usually ST elevation) during symptoms
- Unstable angina - pain which is new or which has changed its character to become more frequent, more severe or both. Unstable angina portends myocardial infarction in a certain percentage of patients.

**System(s) affected:** Cardiovascular  
**Genetics:** Coronary artery disease has genetic implications

**Incidence/Prevalence in USA:** The presenting symptom of coronary artery disease in 38% of men and 61% of women

**Predominant age:** Most common in middle age and older men; postmenopausal women  
**Predominant sex:** Male > Female

**Symptoms:** ... radiating

- #### RISK FACTORS
- Hypercholesterolemia
  - Family history
  - Hypertension
  - Tobacco abuse
  - Alcohol abuse
  - Male gender
  - Obesity
  - Diabetes mellitus
  - Hypertension



#### DIAGNOSIS

##### DIFFERENTIAL DIAGNOSIS

- Pericarditis
- Aortic dissection
- Mitral valve prolapse
- Pulmonary embolus
- Pulmonary hypertension
- Pneumothorax
- Mediastinitis
- Pleuritis
- Esophagitis
- Esophageal spasm
- Peptic ulcer
- Gastritis
- Cholecystitis
- Costochondritis
- Radiculopathy
- Shoulder arthropathy
- Psychological

##### LABORATORY

- Total cholesterol - fr
- HDL cholesterol - fr
- LDL cholesterol - fr
- Drugs that may a
- Disorders that m



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## MEDICAL DIAGNOSIS AND THERAPY

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(25 contributors). About 700 pp. (5 x 8 1/2), 70 illus.,  
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## MODERN NUTRITION IN HEALTH AND DISEASE, 8th ed.

MAURICE E. SHILS, M.D., Sc.D.  
JAMES A. OLSON, Ph.D.  
MOSHE SHIKE, M.D.  
(135 contributors). 3036 pp. (8 1/2 x 11), Two Volumes,  
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FOR CHRONIC ARTHRITIS

# EXPECT AN INCREASED RANGE OF MOTION

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.

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

Please see brief summary of prescribing information on adjacent page.

EXPECT SUCCESS FROM  
**NAPROSYN**<sup>®</sup>  
(NAPROXEN) 500 mg tablets

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



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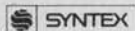
# NAPROSYN<sup>®</sup>

(NAPROXEN) 500 mg tablets

## Brief Summary:

**Contraindications:** Patients who have had allergic reactions to NAPROSYN, ANAPROX or ANAPROX DS or in whom aspirin or other NSAIDs induce the syndrome of asthma, rhinitis, and nasal polyps. Because anaphylactic reactions usually occur in patients with a history of such reactions, question patients for asthma, nasal polyps, urticaria, and hypotension associated with NSAIDs before starting therapy. If such symptoms occur, discontinue the drug. **Warnings:** Serious GI toxicity such as bleeding, ulceration, and perforation can occur at any time, with or without warning symptoms, in patients treated chronically with NSAIDs. Remain alert for ulceration and bleeding in such patients even in the absence of previous GI tract symptoms. In clinical trials, symptomatic upper GI ulcers, gross bleeding or perforation appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. Inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take if they occur. Studies have not identified any subset of patients not at risk of developing peptic ulceration and bleeding. Except for a prior history of serious GI events and other risk factors known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than others and most spontaneous reports of fatal GI events are in this population. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity. **Precautions:** DO NOT GIVE NAPROSYN<sup>®</sup> (NAPROXEN) CONCOMITANTLY WITH ANAPROX<sup>®</sup> (NAPROXEN SODIUM) OR ANAPROX<sup>®</sup> DS (NAPROXEN SODIUM) SINCE THEY BOTH CIRCULATE IN PLASMA AS THE NAPROXEN ANION. Acute interstitial nephritis with hematuria, proteinuria, and nephrotic syndrome has been reported. Patients with impaired renal function, heart failure, liver dysfunction, patients taking diuretics, and the elderly are at greater risk of overt renal decompensation. If this occurs, discontinue 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 lowest effective dose in the elderly or in patients with chronic alcoholic liver disease or cirrhosis. With NSAIDs, borderline elevations of liver tests may occur in up to 15% of patients. They may progress, remain unchanged, or be transient with continued therapy. Elevations of SGPT or SGOT occurred in controlled clinical trials in less than 1% of patients. Severe hepatic reactions, including jaundice and fatal hepatitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g., eosinophilia or rash), discontinue therapy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including adrenal insufficiency and exacerbation of arthritis symptoms. Determine hemoglobin values periodically for patients with initial values of 10 grams or less who receive long-term therapy. Peripheral edema has been reported. Therefore, use with caution in patients with fluid retention, hypertension or heart failure. The drug's antipyretic and anti-inflammatory activities may reduce fever and inflammation, diminishing their diagnostic value. Conduct ophthalmic studies if any change or disturbance in vision occurs. For patients with restricted sodium intake, note that the suspension contains 5 mg/mL of sodium. **Information for Patients:** Side effects of NSAIDs can cause discomfort and, rarely, there are more serious side effects, such as GI bleeding, which may result in hospitalization and even fatal outcomes. Physicians may wish to discuss with patients the potential risks and likely benefits of NSAID treatment, particularly when they are used for less serious conditions where treatment without NSAIDs may be an acceptable alternative. 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 without warning symptoms, follow chronically treated patients for signs and symptoms of these and inform them of the importance of this follow-up. **Drug Interactions:** Use caution when giving concomitantly with coumarin-type anticoagulants; a hydantoin, sulfonamide or sulfonylurea; furosemide; lithium; beta-blockers; probenecid; or methotrexate. **Drug/Laboratory Test Interactions:** The drug may decrease platelet aggregation and prolong bleeding time or increase urinary values for 17-ketogenic steroids. Temporarily stop therapy for 72 hours before doing adrenal function tests. The drug may interfere with urinary assays of 5HIAA. **Carcinogenesis:** A 2-year rat study showed no evidence of carcinogenicity. **Pregnancy:** Category B. Do not use during pregnancy unless clearly needed. Avoid use during late pregnancy. **Nursing Mothers:** Avoid use in nursing mothers. **Pediatric Use:** Single doses of 2.5-5 mg/kg, with total daily dose not exceeding 15 mg/kg/day, are safe in children over 2 years of age. **Adverse Reactions:** In a study, GI reactions were more frequent and severe in rheumatoid arthritis patients on 1,500 mg/day than in those on 750 mg/day. In studies in children with juvenile arthritis, rash and prolonged bleeding times were more frequent, GI and CNS reactions about the same, and other reactions less frequent than in adults. Incidence Greater Than 1%; Probable Causal Relationship: GI: The most frequent complaints related to the GI tract: constipation,\* heartburn,\* abdominal pain,\* nausea,\* dyspepsia, diarrhea, stomatitis. CNS: headache,\* dizziness,\* drowsiness,\* light-headedness, vertigo. Dermatologic: itching (pruritus),\* skin eruptions,\* ecchymoses,\* sweating, purpura. Special Senses: tinnitus,\* hearing disturbances, visual disturbances. Cardiovascular: edema,\* dyspnea,\* palpitations. General: thirst. Incidence Less Than 1%; Probable Causal Relationship: GI: abnormal liver function tests, colitis,\* GI bleeding and/or perforation, hematemesis,\* jaundice, melena, peptic ulceration with bleeding and/or perforation, vomiting. Renal: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis. Hematologic: agranulocytosis, eosinophilia, granulocytopenia, leukopenia, thrombocytopenia. CNS: depression, dream abnormalities, inability to concentrate, insomnia, malaise, myalgia and muscle weakness. Dermatologic: alopecia, photosensitive dermatitis, skin rashes. Special Senses: hearing impairment. Cardiovascular: congestive heart failure. Respiratory: eosinophilic pneumonitis. General: anaphylactoid reactions, menstrual disorders, pyrexia (chills and fever). Causal Relationship Unknown: Hematologic: aplastic anemia, hemolytic anemia. CNS: aseptic meningitis, cognitive dysfunction. Dermatologic: epidermal necrolysis, erythema multiforme, photosensitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa, Stevens-Johnson syndrome, urticaria. GI: non-peptic GI ulceration, ulcerative stomatitis. Cardiovascular: vasculitis. General: angioneurotic edema, hyperglycemia, hypoglycemia. **Overdosage:** May have drowsiness, heartburn, indigestion, nausea, vomiting. A few patients have had seizures. Empty stomach and use usual supportive measures. In animals 0.5 g/kg of activated charcoal reduced plasma levels of naproxen. **Caution:** Federal law prohibits dispensing without prescription. See package insert for full Prescribing Information.

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



U.S. patent nos. 3,904,682, 3,998,966 and others.  
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Healthy Babies Project workers scour streets most people  
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Anything it takes for them to have a healthy, happy baby.  
Please, join our Campaign for Healthier Babies.

**March of Dimes<sup>®</sup>**  
We deliver small miracles

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Once-A-Day

**NEW**

# Adalat<sup>®</sup>CC

nifedipine EXTENDED  
RELEASE  
TABLETS

30mg, 60mg & 90mg

## Real Value for Real People with Hypertension

### Candidate Profile

Name.....Loretta D.  
Age.....63  
Residence.....Cleveland  
Pretreatment BP.....152/96  
Marital Status.....widowed  
Health Ins.....\$500 deductible,  
no Rx plan



Once-A-Day

**NEW**

**Adalat<sup>®</sup>CC**  
**nifedipine** EXTENDED  
RELEASE  
TABLETS

30mg, 60mg & 90mg

**“Save as much as \$111 a year?”**

## Real Value to Meet the Needs of Hypertensive Patients

- **Real therapeutic value** to meet the need for efficacy and reliability
- **Real human value** to meet the need for tolerability and convenience
- **Real economic value** to meet the need for cost control and savings

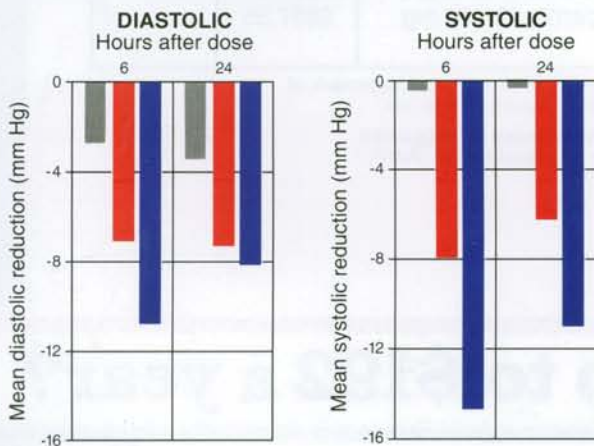


**That's two weeks' worth of groceries."**

## Real Therapeutic Value

- The benefits of long-acting nifedipine
- Sustained blood pressure reduction over 24 hours<sup>1</sup>
- Significant reduction in both diastolic and systolic blood pressure<sup>1</sup>

Mean changes from baseline in supine diastolic and systolic BP:  
average of 24-hour, in-clinic data from weeks 5 and 6 of therapy<sup>1</sup>



**Real People, Real Needs,  
Real Value**

Please see brief summary of Prescribing Information on the last page of this advertisement.

# Real Human Value in Antihypertensive Therapy

- Once-daily regimen could enhance compliance
- Long-acting nifedipine therapy that is well-tolerated
- Frequency and type of side effects are typical of dihydropyridine calcium channel blockers. Peripheral edema and headache were the most common dose-related adverse events reported; flushing/heat sensation, dizziness, and fatigue/asthenia were all reported at an incidence of 4%
- Contraindications: known hypersensitivity to nifedipine

## Real Economic Value

- "The cost of therapy may be a barrier to controlling hypertension"<sup>2</sup>
- Adalat<sup>®</sup> CC is priced (AWP) 25% below the Average Wholesale Price of Procardia XL<sup>®\*\*†3</sup>
- Adalat<sup>®</sup> CC brings Cost Control to once-daily nifedipine therapy for hypertension; it is not indicated for angina
- Adalat<sup>®</sup> CC should be administered on an empty stomach
- Careful titration may be necessary when switching between Procardia XL<sup>®</sup> and Adalat<sup>®</sup> CC

Projected annual savings<sup>†</sup> per hypertensive patient

	Annualized Average Wholesale Price <sup>†</sup>	Potential Annual Patient Savings <sup>†</sup>
<b>Adalat<sup>®</sup> CC 30 mg</b> Procardia XL <sup>®</sup> 30 mg	<b>\$306.97</b> \$417.71	<b>\$111</b>
<b>Adalat<sup>®</sup> CC 60 mg</b> Procardia XL <sup>®</sup> 60 mg	<b>\$531.08</b> \$722.74	<b>\$192</b>
<b>Adalat<sup>®</sup> CC 90 mg</b> Procardia XL <sup>®</sup> 90 mg	<b>\$650.54</b> \$867.35	<b>\$217</b>

\*Procardia XL is a registered trademark of Pfizer Labs Division, Pfizer Inc.

†Calculations based on suggested Average Wholesale Price (AWP).<sup>3</sup>

**"Save up to \$192 a year?"**

Once-A-Day

**NEW**

# Adalat<sup>®</sup>CC

nifedipine

EXTENDED  
RELEASE  
TABLETS

30mg, 60mg & 90mg

## Real People, Real Needs, Real Value

Please see brief summary of Prescribing Information on the last page of this advertisement.

### Candidate Profile

Name .....Frank K.  
Age.....68  
Residence.....San Francisco  
Pretreatment BP .....160/104  
Marital Status.....married  
Health Ins.....Medicare

**That's a few months' gas and electric."**

Once-A-Day

NEW

# Adalat<sup>®</sup> CC

EXTENDED  
RELEASE  
TABLETS

30mg, 60mg & 90mg

- The benefits of long-acting nifedipine therapy for hypertension
- Convenient, well-tolerated therapy
- Lower price (AWP) than Procardia XL<sup>®</sup> 30 mg, 60 mg and 90 mg—**potential 25% savings**<sup>+3</sup>

### BRIEF SUMMARY CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION For Oral Use

PZ100744BS

5/93

**INDICATION AND USAGE:** ADALAT CC is indicated for the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

**CONTRAINDICATIONS:** Known hypersensitivity to nifedipine.

**WARNINGS: Excessive Hypotension:** Although in most patients the hypotensive effect of nifedipine is modest and well tolerated, occasional patients have had excessive and poorly tolerated hypotension. These responses have usually occurred during initial titration or at the time of subsequent dosage adjustment, and may be more likely in patients using concomitant beta-blockers.

Severe hypotension and/or increased fluid volume requirements have been reported in patients who received immediate release capsules together with a beta-blocking agent and who underwent coronary artery bypass surgery using high dose fentanyl anesthesia. The interaction with high dose fentanyl appears to be due to the combination of nifedipine and a beta-blocker, but the possibility that it may occur with nifedipine alone, with low doses of fentanyl, in other surgical procedures, or with other narcotic analgesics cannot be ruled out. In nifedipine-treated patients where surgery using high dose fentanyl anesthesia is contemplated, the physician should be aware of these potential problems and, if the patient's condition permits, sufficient time (at least 36 hours) should be allowed for nifedipine to be washed out of the body prior to surgery.

**Increased Angina and/or Myocardial Infarction:** Rarely, patients, particularly those who have severe obstructive coronary artery disease, have developed well documented increased frequency, duration and/or severity of angina or acute myocardial infarction upon starting nifedipine or at the time of dosage increase. The mechanism of this effect is not established.

**Beta-Blocker Withdrawal:** When discontinuing a beta-blocker it is important to taper its dose, if possible, rather than stopping abruptly before beginning nifedipine. Patients recently withdrawn from beta blockers may develop a withdrawal syndrome with increased angina, probably related to increased sensitivity to catecholamines. Initiation of nifedipine treatment will not prevent this occurrence and on occasion has been reported to increase it.

**Congestive Heart Failure:** Rarely, patients (usually while receiving a beta-blocker) have developed heart failure after beginning nifedipine. Patients with light aortic stenosis may be at greater risk for such an event, as the unloading effect of nifedipine would be expected to be of less benefit to these patients, owing to their fixed impedance to flow across the aortic valve.

**PRECAUTIONS: General - Hypotension:** Because nifedipine decreases peripheral vascular resistance, careful monitoring of blood pressure during the initial administration and titration of ADALAT CC is suggested. Close observation is especially recommended for patients already taking medications that are known to lower blood pressure (See WARNINGS).

**Peripheral Edema:** Mild to moderate peripheral edema occurs in a dose-dependent manner with ADALAT CC. The placebo subtracted rate is approximately 8% at 30 mg, 12% at 60 mg and 19% at 90 mg daily. This edema is a localized phenomenon, thought to be associated with vasodilation of dependent arterioles and small blood vessels and not due to left ventricular dysfunction or generalized fluid retention. With patients whose hypertension is complicated by congestive heart failure, care should be taken to differentiate this peripheral edema from the effects of increasing left ventricular dysfunction.

**Information for Patients:** ADALAT CC is an extended release tablet and should be swallowed whole and taken on an empty stomach. It should not be administered with food. Do not chew, divide or crush tablets.

**Laboratory Tests:** Rare, usually transient, but occasionally significant elevations of enzymes such as alkaline phosphatase, CPK, LDH, SGOT, and SGPT have been noted. The relationship to nifedipine therapy is uncertain in most cases, but probable in some. These laboratory abnormalities have rarely been associated with clinical symptoms; however, cholestasis with or without jaundice has been reported. A small increase (<5%) in mean alkaline phosphatase was noted in patients treated with ADALAT CC. This was an isolated finding and it rarely resulted in values which fell outside the normal range. Rare instances of allergic hepatitis have been reported with nifedipine treatment. In controlled studies, ADALAT CC did not adversely affect serum uric acid, glucose, cholesterol or potassium.

Nifedipine, like other calcium channel blockers, decreases platelet aggregation *in vitro*. Limited clinical studies have demonstrated a moderate but statistically significant decrease in platelet aggregation and increase in bleeding time in some nifedipine patients. This is thought to be a function of inhibition of calcium transport across the platelet membrane. No clinical significance for these findings has been demonstrated. Positive direct Coombs' test with or without hemolytic anemia has been reported but a causal relationship between nifedipine administration and positivity of this laboratory test, including hemolysis, could not be determined.

Although nifedipine has been used safely in patients with renal dysfunction and has been reported to exert a beneficial effect in certain cases, rare reversible elevations in BUN and serum creatinine have been reported in patients with pre-existing chronic renal insufficiency. The relationship to nifedipine therapy is uncertain in most cases but probable in some.

**Drug Interactions:** Beta-adrenergic blocking agents: (See WARNINGS).

ADALAT CC was well tolerated when administered in combination with a beta blocker in 187 hypertensive patients in a placebo-controlled clinical trial. However, there have been occasional literature reports suggesting that the combination of nifedipine and beta-adrenergic blocking drugs may increase the likelihood of congestive heart failure, severe hypotension, or exacerbation of angina in patients with cardiovascular disease.

**Digitalis:** Since there have been isolated reports of patients with elevated digoxin levels, and there is a possible interaction between digoxin and ADALAT CC, it is recommended that digoxin levels be monitored when initiating, adjusting, and discontinuing ADALAT CC to avoid possible over- or under-digitalization.

**Coumarin Anticoagulants:** There have been rare reports of increased prothrombin time in patients taking coumarin anticoagulants to whom nifedipine was administered. However, the relationship to nifedipine therapy is uncertain.

**Quinidine:** There have been rare reports of an interaction between quinidine and nifedipine (with a decreased plasma level of quinidine).

## Real People, Real Needs, Real Value

**Cimetidine:** Both the peak plasma level of nifedipine and the AUC may increase in the presence of cimetidine. Ranitidine produces smaller non-significant increases. This effect of cimetidine may be mediated by its known inhibition of hepatic cytochrome P-450, the enzyme system probably responsible for the first-pass metabolism of nifedipine. If nifedipine therapy is initiated in a patient currently receiving cimetidine, cautious titration is advised.

**Carcinogenesis, Mutagenesis, Impairment of Fertility:** Nifedipine was administered orally to rats for two years and was not shown to be carcinogenic. When given to rats prior to mating, nifedipine caused reduced fertility at a dose approximately 30 times the maximum recommended human dose. *In vivo* mutagenicity studies were negative.

**Pregnancy:** Pregnancy Category C. In rodents, rabbits and monkeys, nifedipine has been shown to have a variety of embryotoxic, placental and fetotoxic effects, including stunted fetuses (rats, mice and rabbits), digital anomalies (rats and rabbits), rib deformities (mice), cleft palate (mice), small placentas and underdeveloped chorionic villi (monkeys), embryonic and fetal deaths (rats, mice and rabbits), prolonged pregnancy (rats; not evaluated in other species), and decreased neonatal survival (rats; not evaluated in other species). On a mg/kg or mg/m<sup>2</sup> basis, some of the doses associated with these various effects are higher than the maximum recommended human dose and some are lower, but all are within an order of magnitude of it.

The digital anomalies seen in nifedipine-exposed rabbit pups are strikingly similar to those seen in pups exposed to phenytoin, and these are in turn similar to the phalangeal deformities that are the most common malformation seen in human children with *in utero* exposure to phenytoin.

There are no adequate and well-controlled studies in pregnant women. ADALAT CC should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Nursing Mothers:** Nifedipine is excreted in human milk. Therefore, a decision should be made to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

**ADVERSE EXPERIENCES:** The incidence of adverse events during treatment with ADALAT CC in doses up to 90 mg daily were derived from multi-center placebo-controlled clinical trials in 370 hypertensive patients. Atenolol 50 mg once daily was used concomitantly in 187 of the 370 patients on ADALAT CC and in 64 of the 126 patients on placebo. All adverse events reported during ADALAT CC therapy were tabulated independently of their causal relationship to medication.

The most common adverse event reported with ADALAT<sup>®</sup> CC was peripheral edema. This was dose related and the frequency was 18% on ADALAT CC 30 mg daily, 22% on ADALAT CC 60 mg daily and 29% on ADALAT CC 90 mg daily versus 10% on placebo.

Other common adverse events reported in the above placebo-controlled trials include: Headache (19%, versus 13% placebo incidence); Flushing/heat sensation (4%, versus 0% placebo incidence); Dizziness (4%, versus 2% placebo incidence); Fatigue/asthenia (4%, versus 4% placebo incidence); Nausea (2%, versus 1% placebo incidence); Constipation (1%, versus 0% placebo incidence).

Where the frequency of adverse events with ADALAT CC and placebo is similar, causal relationship cannot be established. The following adverse events were reported with an incidence of 3% or less in daily doses up to 90 mg:

Start with\*

Rx

Adalat CC  
30mg  
once daily

Titrate, if necessary\*

Rx

Adalat CC  
60mg  
once daily

\*Please see DOSAGE AND ADMINISTRATION section in brief summary of Prescribing Information below.

**Body as a Whole/Systemic:** chest pain, leg pain **Central Nervous System:** paresthesia, vertigo **Dermatologic:** rash **Gastrointestinal:** constipation **Musculoskeletal:** leg cramps **Respiratory:** epistaxis, rhinitis **Urogenital:** impotence, urinary frequency

Other adverse events reported with an incidence of less than 1.0% were:

**Body as a Whole/Systemic:** cellulitis, chills, facial edema, neck pain, pelvic pain, pain **Cardiovascular:** atrial fibrillation, bradycardia, cardiac arrest, extrasystole, hypotension, palpitations, plebitis, postural hypotension, tachycardia, cutaneous angiectases **Central Nervous System:** anxiety, confusion, decreased libido, depression, hypertonia, insomnia, somnolence **Dermatologic:** pruritus, sweating **Gastrointestinal:** abdominal pain, diarrhea, dry mouth, dyspepsia, esophagitis, flatulence, gastrointestinal hemorrhage, vomiting **Hematologic:** lymphadenopathy **Metabolic:** gout, weight loss **Musculoskeletal:** arthralgia, arthritis, myalgia **Respiratory:** dyspnea, increased cough, rales, pharyngitis **Special Senses:** abnormal vision, amblyopia, conjunctivitis, diplopia, tinnitus **Urogenital/Reproductive:** kidney calculus, nocturia, breast engorgement

The following adverse events have been reported rarely in patients given nifedipine in other formulations: allergic hepatitis, alopecia, anemia, arthritis with ANA (+), depression, erythromalgia, exfoliative dermatitis, fever, gingival hyperplasia, gynecostasia, leukopenia, mood changes, muscle cramps, nervousness, paranoid syndrome, purpura, shakiness, sleep disturbances, syncope, taste perversion, thrombocytopenia, transient blindness at the peak plasma level, tremor and urticaria.

**DOSAGE AND ADMINISTRATION:** Dosage should be adjusted according to each patient's needs. It is recommended that ADALAT CC be administered orally once daily on an empty stomach. ADALAT CC is an extended release dosage form and tablets should be swallowed whole, not bitten or divided. In general, titration should proceed over a 7-14 day period starting with 30 mg once daily. Upward titration should be based on therapeutic efficacy and safety. The usual maintenance dose is 30 mg to 60 mg once daily. Titration to doses above 90 mg daily is not recommended. If discontinuation of ADALAT CC is necessary, sound clinical practice suggests that the dosage should be decreased gradually with close physician supervision. Care should be taken when dispensing ADALAT CC to assure that the extended release dosage form has been prescribed.

PZ100744BS

5/93

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### References:

1. Data on file, Miles Inc.
2. The Fifth Report of the Joint National Committee on Detection, Evaluation, and Treatment of High Blood Pressure (JNC V). *Arch Intern Med.* 1/25/1993;153:154-183.
3. *Readbook Update.* Oradell, NJ, Medical Economics Co., March 1993;p. 32.

<sup>+3</sup>Calculations based on suggested Average Wholesale Price (AWP). Procardia XL is a registered trademark of Pfizer Labs Division, Pfizer Inc.



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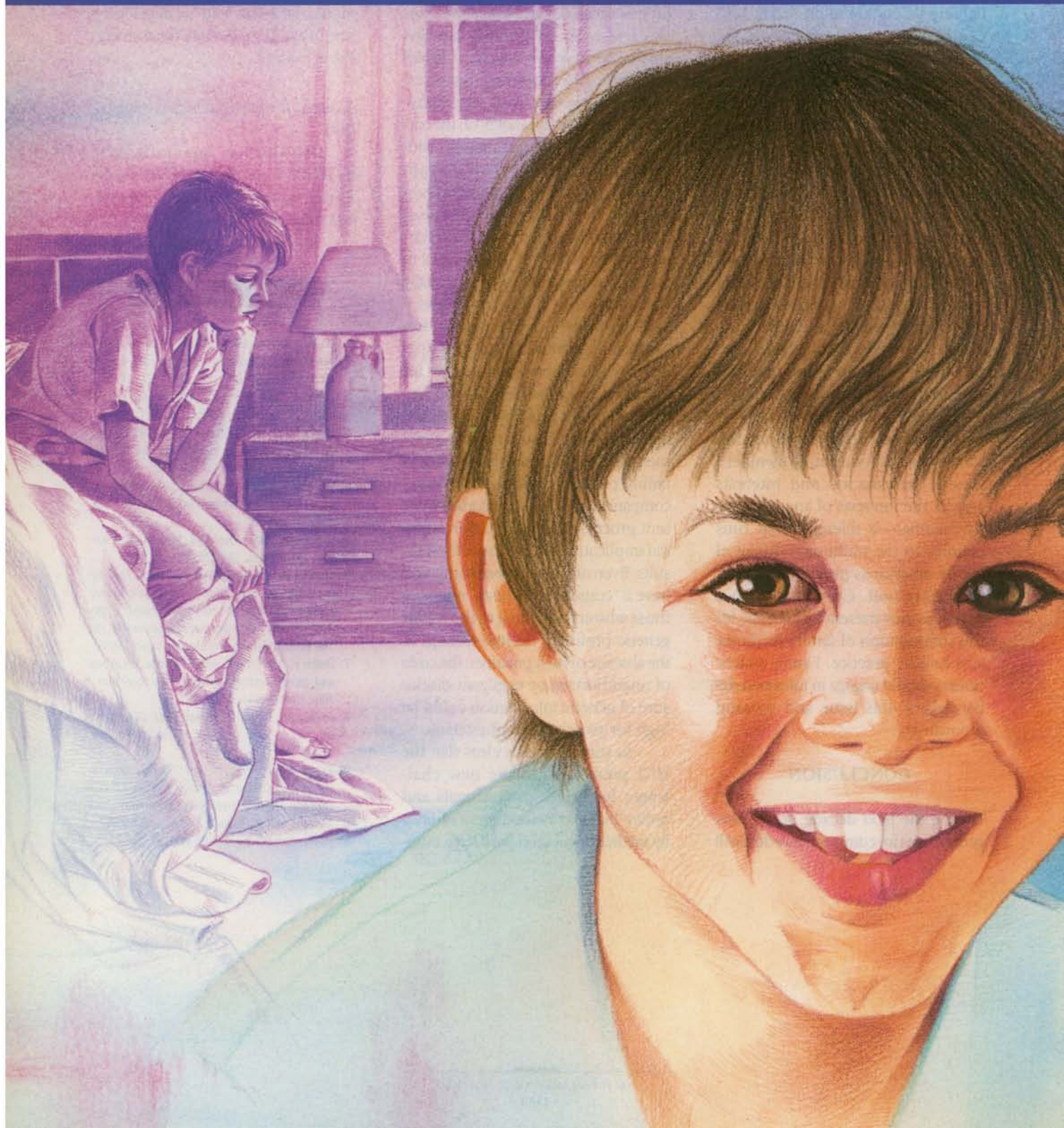


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## **Works safely**

- Well tolerated... an incidence of adverse events comparable to placebo
- No adverse experiences reported in a study of 28 children, 11 treated for 12 to 42 months<sup>2</sup>
- Approximately 20 years of safe use in children with diabetes insipidus<sup>3</sup>

## **Works effectively, rapidly**

- Success rates as high as 82%<sup>4</sup>
- Significant response in as few as 1-3 days<sup>5</sup>

## **Works to improve children's self-concept**

- Children frequently experience feelings of happiness and achievement at becoming dry<sup>6</sup>
- Significantly improves self-concept, restores quality of life<sup>7</sup>

Nighttime fluid intake should be restricted to decrease the potential occurrence of fluid overload; serum electrolytes should be checked at least once when therapy is continued beyond 7 days.

 **DDAVP<sup>®</sup> Nasal Spray**  
(desmopressin acetate) 5mL

**Dry Nights For Good Mornings**

Please see Brief Summary of prescribing information on following page.

# DDAVP<sup>®</sup> Nasal Spray

(desmopressin acetate) 5mL

Dry Nights For Good Mornings



**Brief Summary**  
**CONTRAINDICATION:** Known hypersensitivity to DDAVP Nasal Spray.

**WARNINGS:**  
1. For intranasal use only.  
2. In very young and elderly patients in particular, fluid intake should be adjusted in order to decrease the potential occurrence of water intoxication and hyponatremia. Particular attention should be paid to the possibility of the rare occurrence of an extreme decrease in plasma osmolality and resulting seizures.

**PRECAUTIONS:**  
**General:** DDAVP Nasal Spray at high dosage has infrequently produced a slight elevation of blood pressure, which disappeared with a reduction in dosage. The drug should be used with caution in patients with coronary artery insufficiency and/or hypertensive cardiovascular disease because of possible rise in blood pressure.

DDAVP Nasal Spray should be used with caution in patients with conditions associated with fluid and electrolyte imbalance, such as cyclic fibrosis, because these patients are prone to hyponatremia.

**Central Cranial Diabetes insipidus:** Since DDAVP Nasal Spray is used intranasally, changes in the nasal mucosa such as scarring, edema, or other disease may cause erratic, unreliable absorption in which case DDAVP Nasal Spray should not be used. For such situations, DDAVP injection should be considered.

**Primary Nocturnal Enuresis:** If changes in the nasal mucosa have occurred, unreliable absorption may result. DDAVP Nasal Spray should be discontinued until the nasal problems resolve.

**Information for Patients:** Patients should be informed that the bottle accurately delivers 50 doses of 10 mcg each. Any solution remaining after 50 doses should be discarded since the amount delivered thereafter may be substantially less than 10 mcg of drug. No attempt should be made to transfer remaining solution to another bottle. Patients should be instructed to read accompanying directions on use of the spray pump carefully before use.

**Laboratory Tests:** Laboratory tests for following the patient with central cranial diabetes insipidus or post-surgical or head trauma-related polyuria and polydipsia include urine volume and osmolality. In some cases plasma osmolality may be required. For the healthy patient with primary nocturnal enuresis, serum electrolytes should be checked at least once if therapy is continued beyond 7 days.

**Drug Interactions:** Although the pressor activity of DDAVP Nasal Spray is very low compared to the antidiuretic activity, use of large doses of DDAVP Nasal Spray with other pressor agents should only be done with careful patient monitoring.

**Carcinogenesis, Mutagenesis, Impairment of Fertility:** Teratology studies in rats have shown no abnormalities. No further information is available.

**Pregnancy-Category B:** Reproduction studies performed in rats and rabbits with doses up to 12.5 times the human intranasal dose (i.e. about 125 times the total adult human dose given systemically) have revealed no evidence of harm to the fetus due to desmopressin acetate. There are several publications of management of diabetes insipidus in pregnant women with no harm to the fetus reported, however, no controlled studies in pregnant women have been carried out. Published reports stress that, as opposed to preparations containing the natural hormones, DDAVP Nasal Spray (desmopressin acetate) in antidiuretic doses has no uterotonic action, but the physician will have to weigh possible therapeutic advantages against possible dangers in each individual case.

**Nursing Mothers:** There have been no controlled studies in nursing mothers. A single study in a post-partum woman demonstrated a marked change in plasma, but little if any change in assayable DDAVP Nasal Spray in breast milk following an intranasal dose of 10 mcg.

**Pediatric Use:** Primary Nocturnal Enuresis: DDAVP Nasal Spray has been used in childhood nocturnal enuresis. Short-term (4-8 weeks) DDAVP Nasal Spray administration has been shown to be safe and modestly effective in children aged 6 years or older with severe childhood nocturnal enuresis. Adequately controlled studies with DDAVP Nasal Spray in primary nocturnal enuresis have not been conducted beyond 4-8 weeks. The dose should be individually adjusted to achieve the best results.

**Central Cranial Diabetes insipidus:** DDAVP Nasal Spray has been used in children with diabetes insipidus. Use in infants and children will require careful fluid intake restriction to prevent possible hyponatremia and water intoxication. The dose must be individually adjusted to the patient with attention in the very young to the danger of an extreme decrease in plasma osmolality with resulting convulsions. Dose should start at 0.05 mL, or less.

Since the spray cannot deliver less than 0.1 mL (10 mcg), smaller doses should be administered using the rhinal tube delivery system. Do not use the nasal spray in pediatric patients requiring less than 0.1 mL (10 mcg) per dose.

There are reports of an occasional change in response with time, usually greater than 6 months. Some patients may show a decreased responsiveness; others a shortened duration of effect. There is no evidence this effect is due to the development of binding antibodies, but may be due to a local inactivation of the peptide.

**ADVERSE REACTIONS:** Infrequently, high dosages have produced transient headache and nausea. Nasal congestion, rhinitis and flushing have also been reported occasionally along with mild abdominal cramps. These symptoms disappeared with reduction in dosage. Nose-bleed, sore throat, cough and upper respiratory infections have also been reported.

The following table lists the percent of patients having adverse experiences without regard to relationship to study drug from the pooled pivotal study data for nocturnal enuresis.

ADVERSE REACTION	PLACEBO	DDAVP	DDAVP
	(N=59)	20 mcg	40 mcg
	%	(N=60)	(N=61)
<b>BODY AS A WHOLE</b>			
Abdominal Pain	0	2	2
Asthenia	0	0	2
Chills	0	0	2
Headache	0	2	5
Throat Pain	2	0	0
<b>NERVOUS SYSTEM</b>			
Depression	2	0	0
Dizziness	0	0	3
<b>RESPIRATORY SYSTEM</b>			
Epi-staxis	2	3	0
Nasal Pain	0	2	0
Respiratory Infection	2	0	0
Rhinitis	2	8	3
<b>CARDIOVASCULAR SYSTEM</b>			
Vasodilation	2	0	0
<b>DIGESTIVE SYSTEM</b>			
Gastrointestinal Disorder	0	2	0
Nausea	0	0	2
<b>SKIN &amp; APPENDAGES</b>			
Leg Rash	2	0	0
Rash	2	0	0
<b>SPECIAL SENSES</b>			
Conjunctivitis	0	2	0
Edema Eyes	0	2	0
Lachrymation Disorder	0	0	2

**OVERDOSAGE:** See adverse reactions above. In case of overdosage, the dose should be reduced, frequency of administration decreased, or the drug withdrawn according to the severity of the condition. There is no known specific antidote for DDAVP Nasal Spray. An oral LD<sub>50</sub> has not been established. An intravenous dose of 2 mg/kg in mice demonstrated no effect.

**HOW SUPPLIED:** A 5-mL bottle with spray pump delivering 50 doses of 10 mcg (NDC 0075-2450-02). Also available as 2.5 mL, per vial, packaged with two rhinal tube applicators per carton (NDC 0075-2450-01). Keep refrigerated at 2°-8°C (36°-46°F). When traveling, product will maintain stability for up to 3 weeks when stored at room temperature, 22°C (72°F).

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

**References:** 1. Roth D: Introduction to *Current Concepts in the Management of Primary Nocturnal Enuresis*. Proceedings from a symposium sponsored by the Baylor College of Medicine: January 1991. 2. Miller K, Goldberg S, Atkin B: Nocturnal enuresis: Experience with long-term use of intranasally administered desmopressin. *J Pediatr* 1989;114(Part 2):725-726. 3. Harris AS: Clinical experience with desmopressin: Efficacy and safety in central diabetes insipidus and other conditions. *J Pediatr* 1989;114(Part 2):711-718. 4. Rittig S, Knudsen UB, Sorenson S, et al: Long-term double-blind cross-over study of desmopressin intranasal spray in the management of nocturnal enuresis. In: Meadow SR, ed. *Desmopressin in Nocturnal Enuresis: Proceedings of an International Symposium*. England: Horus Medical Publications; 1988:43-55. 5. Aladjem M, Wohl R, Boichis II, et al: Desmopressin in nocturnal enuresis. *Arch Dis Child* 1982;57:137-140. 6. Baker BL: Symptom treatment and symptom substitution in enuresis. *J Abnorm Psych* 1969;74:42-49. 7. Moffat MEK: Nocturnal enuresis: Psychologic implications of treatment and nontreatment. *J Pediatr* 1989;114(Part 2):697-704.

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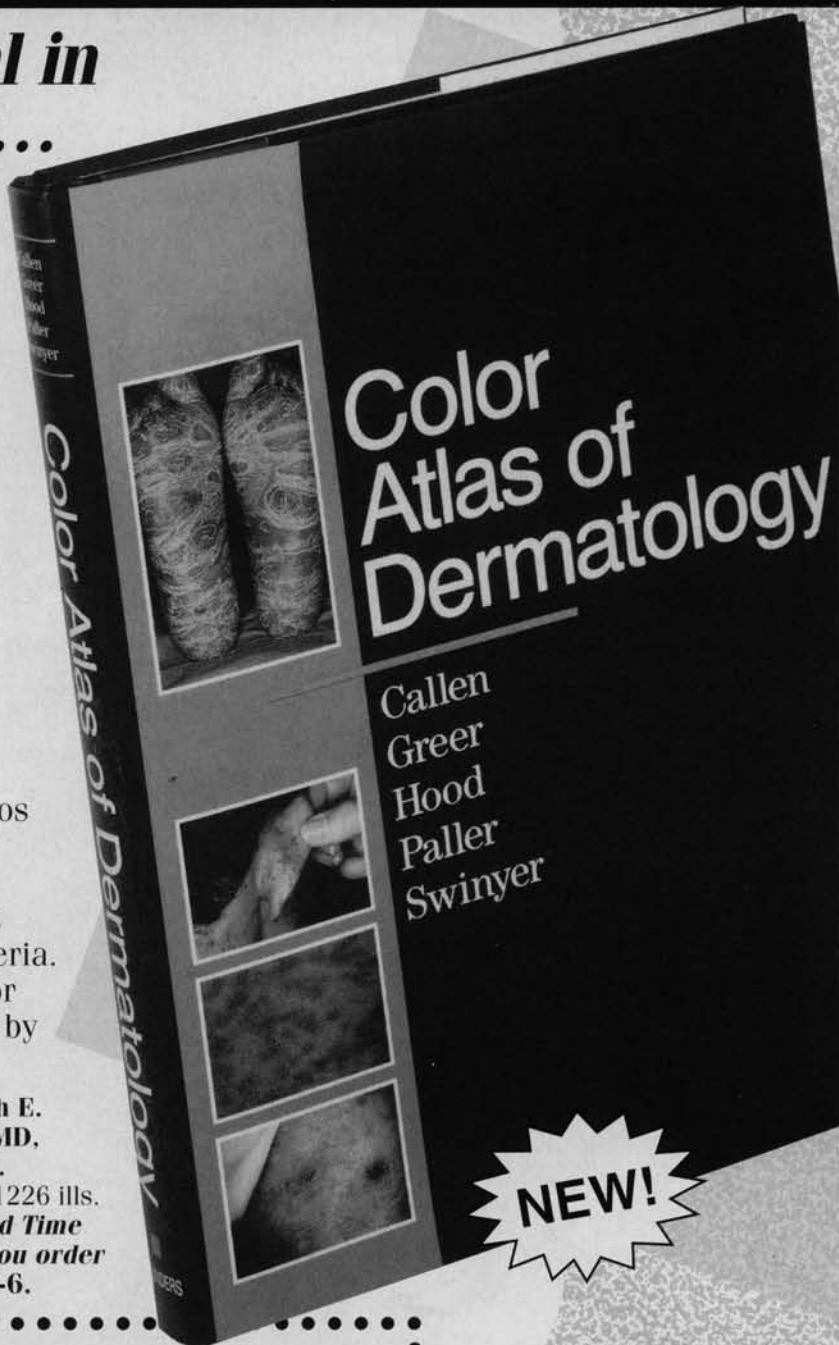
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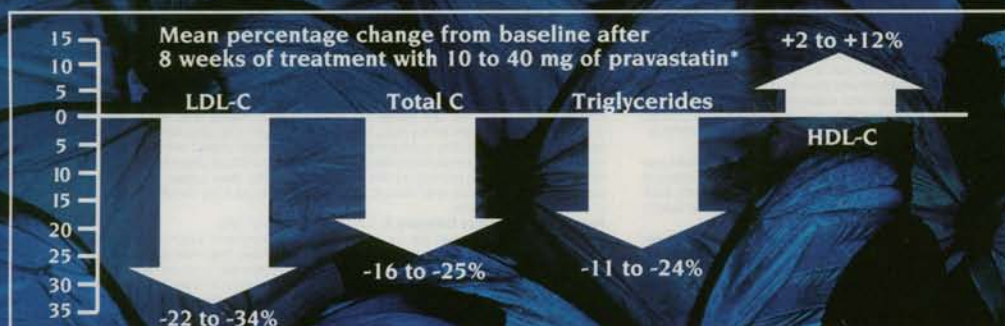
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\*Each arrow represents a range of means derived from a single placebo-controlled study that included 55 patients treated with pravastatin.

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

  
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 pravastatin sodium 20 mg tablets



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





## Effective with a low incidence of peptic ulcers

- As effective as NSAID standards for OA and RA<sup>1</sup>
- 0.5% incidence of peptic ulcers up to 1 year.\*<sup>1</sup> Other G.I. symptoms comparable to other NSAIDs, including diarrhea, dyspepsia and abdominal pain
- No significant effect on platelet aggregation<sup>1</sup>
- Convenient once-a-day dosing: Starting dose two 500 mg tablets once a day, may be adjusted up to 2000 mg

\*Cumulative rate of ulcers by duration of treatment in U.S. clinical trials with Relafen. 1000 mg n=833, 1500 mg n=614, 2000 mg n=69; 95% confidence intervals (0.1%, 0.9%).



**RELAFEN<sup>®</sup>**  
NABUMETONE

Effective with a low  
incidence of peptic ulcers<sup>†</sup>

<sup>†</sup>Other G.I. symptoms comparable to  
other NSAIDs. Please see brief summary of  
prescribing information on adjacent page.



**RELAFEN<sup>®</sup>**  
brand of nabumetone

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

**CLINICAL PHARMACOLOGY:** *Relafen* 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-naphthylacetic 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 *Relafen*, aspirin or other NSAIDs induce asthma, urticaria or other allergic-type reactions.

**WARNINGS:** Remain alert for ulceration and bleeding in patients treated chronically, even in the absence of previous G.I. tract symptoms.

In controlled clinical trials involving 1,577 patients treated with *Relafen* (1,140 followed for one year and 927 for two years), the cumulative incidence of peptic ulcers was 0.3% (95% CI, 0%, 0.6%) at three to six months, 0.5% (95% CI, 0.1%, 0.9%) 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, weigh the benefits of *Relafen* therapy against possible hazards, institute an appropriate ulcer treatment regimen and monitor the patients' progress carefully.

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

**PRECAUTIONS:** Because nabumetone undergoes extensive hepatic metabolism, no adjustment of *Relafen* dosage is generally necessary in patients with renal insufficiency. However, as with all NSAIDs, monitor patients with impaired renal function more closely than patients with 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 *Relafen* therapy. If abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue *Relafen*. Use *Relafen* cautiously in patients with severe hepatic impairment.

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

Based on U.V. light photosensitivity testing, *Relafen* may be associated with more reactions to sun exposure than might be expected based on skin tanning types.

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

Exercise caution when administering *Relafen* with warfarin since interactions have been seen with other NSAIDs.

In two-year studies conducted in mice and rats, nabumetone had no statistically significant tumorigenic effect. Nabumetone did not show mutagenic potential in the Ames test and mouse micronucleus test *in vivo*. However, nabumetone- and 6MNA-treated lymphocytes in culture showed chromosomal aberrations at 80 mg/mL and higher concentrations (equal to the average human exposure to *Relafen* at the maximum recommended dose).

Nabumetone did not impair fertility of male or female rats treated orally at doses of 320 mg/kg/day before mating.

Pregnancy Category C: Nabumetone did not cause any teratogenic 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 at 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 pregnancy only if clearly needed. Because of the known effect of prostaglandin-synthesis-inhibiting drugs on the human fetal cardiovascular system (closure of ductus arteriosus), use of *Relafen* during the third trimester of pregnancy is not recommended.

The effects of *Relafen* on labor and delivery in women are not known. As with other drugs known to inhibit prostaglandin synthesis, an increased incidence of dystocia and delayed parturition occurred in rats treated throughout pregnancy.

It is not known whether nabumetone or its metabolites are excreted in human milk, however, 6MNA is excreted in the milk of lactating rats. Because of the possible adverse effects of prostaglandin-synthesis-inhibiting drugs on neonates, *Relafen* is not recommended for use in nursing mothers.

Safety and efficacy in children have not been established.

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

**ADVERSE REACTIONS: Incidence  $\geq 1\%$ —Probably Causally Related**—Diarrhea (14%), dyspepsia (13%), abdominal pain (12%), constipation\*, flatulence\*, nausea\*, positive stool guaiac\*, dry mouth, gastritis, stomatitis, vomiting, dizziness\*, headache\*, fatigue, increased sweating, insomnia, nervousness, somnolence, pruritus\*, rash\* tinnitus\*, edema\*.

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

**Incidence  $< 1\%$ —Probably Causally Related**—Anorexia, cholestatic jaundice, duodenal ulcer, dysphagia, gastric ulcer, gastroenteritis, gastrointestinal bleeding, increased appetite, liver function abnormalities, melena, asthenia, agitation, anxiety, confusion, depression, malaise, paresthesia, tremor, vertigo, bullous eruptions, photosensitivity, urticaria, pseudoporphyria cutanea tarda, toxic epidermal necrolysis, vasculitis, weight gain, dyspnea, eosinophilic pneumonia, hypersensitivity pneumonitis, albuminuria, azotemia, hyperuricemia, interstitial nephritis, vaginal bleeding, abnormal vision, anaphylactoid reaction, anaphylaxis, angioneurotic edema.

**Incidence  $< 1\%$ —Causal Relationship Unknown**—Bilirubinuria, duodenitis, eructation, gallstones, gingivitis, glossitis, pancreatitis, rectal bleeding, nightmares, acne, alopecia, erythema multiforme, Stevens-Johnson Syndrome, angina, arrhythmia, hypertension, myocardial infarction, palpitations, syncope, thrombophlebitis, asthma, cough, dysuria, hematuria, impotence, renal stones, taste disorder, fever, chills, anemia, leukopenia, granulocytopenia, thrombocytopenia, hyperglycemia, hypokalemia, weight loss.

†Adverse reactions reported only in worldwide postmarketing experience or in the literature, not seen in clinical trials, are considered rarer and are italicized.

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

One overdose occurred in a 17-year-old female patient who had a history of abdominal pain and was hospitalized for increased abdominal pain following ingestion of 30 *Relafen* tablets (15 grams total). Stools were negative for occult blood and there was no fall 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 food. Some patients may obtain more symptomatic relief from 1500 mg to 2000 mg daily. Dosages over 2000 mg daily have not been studied. Use the lowest effective dose for chronic treatment.

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

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

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

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

BRS-RL15

**Reference:**

1. Data on file, Medical Department, SmithKline Beecham Pharmaceuticals.



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American Medical Association

# Physicians Health Foundation

Caring for the Caregiver

The Physicians Health Foundation assists physicians who find themselves unable to be fully self-supporting due to an illness, injury, or disability. The purpose of the Foundation is to help physicians discover and sustain an optimum level of professional practice throughout their careers. The Foundation's programs are designed to help physicians maintain healthy and productive careers and to assist those physicians who are disabled or impaired to return to the practice of medicine.

## A host of services

- a rehabilitation and relief fund
- a career retraining program
- a job finding service
- development of model programs
- an educational program for professionals
- an International Conference on Physician Health
- a research program to identify needs

## Helping out is every physician's responsibility

The American Medical Association (AMA) is committed to laying the groundwork for the Foundation. Ongoing support from the physician community must be sought through annual fund raising campaigns and longer-term planned giving efforts.

We are asking physicians and other health professionals to reach into their pockets so that we do not lose this historic opportunity to insure the well-being of the profession and more importantly to provide assistance to physicians suddenly finding themselves in need.

Make your check payable to the  
AMA Physicians Health Foundation  
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AMA Physicians Health Foundation,  
515 N. State Street, Chicago, IL 60610.  
Check with your tax advisor concerning  
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American Medical Association

Physicians Health Foundation

Caring for the Caregiver



## NAPROSYN®

(NAPROXEN) 500 mg tablets

### Brief Summary:

**Contraindications:** Patients who have had allergic reactions to NAPROSYN, ANAPROX or ANAPROX DS or in whom aspirin or other NSAIDs induce the syndrome of asthma, rhinitis and nasal polyps. Because anaphylactic reactions usually occur in patients with a history of such reactions, question patients for asthma, nasal polyps, urticaria, and hypotension associated with NSAIDs before starting therapy. If such symptoms occur, discontinue the drug. **Warnings:** Serious GI toxicity such as bleeding, ulceration, and perforation can occur at any time, with or without warning symptoms, in patients treated chronically with NSAIDs. Remain alert for ulceration and bleeding in such patients even in the absence of previous GI tract symptoms. In clinical trials, symptomatic upper GI ulcers, gross bleeding or perforation appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. Inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take if they occur. Studies have not identified any subset of patients not at risk of developing peptic ulceration and bleeding. Except for a prior history of serious GI events and other risk factors known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than others and most spontaneous reports of fatal GI events are in this population. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity. **Precautions:** DO NOT GIVE NAPROSYN® (NAPROXEN) CONCOMITANTLY WITH ANAPROX® (NAPROXEN SODIUM) OR ANAPROX® DS (NAPROXEN SODIUM) SINCE THEY BOTH CIRCULATE IN PLASMA AS THE NAPROXEN ANION. Acute interstitial nephritis with hematuria, proteinuria, and nephrotic syndrome has been reported. Patients with impaired renal function, heart failure, liver dysfunction, patients taking diuretics, and the elderly are at greater risk of overt renal decompensation. If this occurs, discontinue 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 lowest effective dose in the elderly or in patients with chronic alcoholic liver disease or cirrhosis. With NSAIDs, borderline elevations of liver tests may occur in up to 15% of patients. They may progress, may increase, or may be transient with continued therapy. Elevations of SGPT or SGOT occurred in controlled clinical trials in less than 1% of patients. Severe hepatic reactions, including jaundice and fatal hepatitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g., eosinophilia or rash), discontinue therapy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including adrenal insufficiency and exacerbation of arthritis symptoms. Determine hemoglobin values periodically for patients with initial values of 10 grams or less who receive long-term therapy. Peripheral edema has been reported. Therefore, use with caution in patients with fluid retention, hypertension or heart failure. The drug's antipyretic and anti-inflammatory activities may reduce fever and inflammation, diminishing their diagnostic value. Conduct ophthalmic studies if any change or disturbance in vision occurs. For patients with restricted sodium intake, note that the suspension contains 8 mg/mL of sodium. **Information for Patients:** Side effects of NSAIDs can cause discomfort and, rarely, there are more serious side effects, such as GI bleeding, which may result in hospitalization and even fatal outcomes. Physicians may wish to discuss with patients the potential risks and likely benefits of NSAID treatment, particularly when they are used for less serious conditions where treatment without NSAIDs may be an acceptable alternative. Patients should use caution for activities requiring alertness if they experience drowsiness, dizziness, vertigo or depression during therapy. **Laboratory Tests:** In patients with serious GI tract ulceration and bleeding can occur without warning symptoms. Follow chronically treated patients for signs and symptoms of these and inform them of the importance of this follow-up. **Drug Interactions:** Use caution when giving concomitantly with coumarin-type anticoagulants, a hydantoin, sulfonamide or sulfonyleurea, furosemide, lithium, beta-blockers, probenecid, or methotrexate. **Drug/Laboratory Test Interactions:** The drug may decrease platelet aggregation and prolong bleeding time or increase urinary values for 17-ketogenic steroids. Temporarily stop therapy for 72 hours before doing adrenal function tests. The drug may interfere with urinary assays of 5HIAA. **Carcinogenesis:** A 2-year rat study showed no evidence of carcinogenicity. **Pregnancy:** Category B. Do not use during pregnancy unless clearly needed. Avoid use during late pregnancy. **Nursing Mothers:** Avoid use in nursing mothers. **Pediatric Use:** Single doses of 2.5-5 mg/kg, with total daily dose not exceeding 15 mg/kg/day, are safe in children over 2 years of age. **Adverse Reactions:** In a study, GI reactions were more frequent and severe in rheumatoid arthritis patients on 1,500 mg/day than in those on 750 mg/day. In studies in children with juvenile arthritis, rash and prolonged bleeding times were more frequent. GI and CNS reactions about the same, and other reactions less frequent than in adults. Incidence Greater Than 1%: Probable Causal Relationship: GI: The most frequent complaints related to the GI tract: constipation; heartburn; abdominal pain; nausea; dyspepsia, diarrhea, stomatitis. CNS: headache; dizziness; drowsiness; light-headedness; vertigo. Dermatologic: itching (pruritus); skin eruptions; ecchymoses; sweating; purpura. Special Senses: tinnitus; hearing disturbances, visual disturbances. Cardiovascular: edema; dyspnea; palpitations. General: thirst. Incidence Less Than 1%: Probable Causal Relationship: GI: abnormal liver function tests, colitis. GI bleeding and/or perforation, hematemesis, jaundice, melena, peptic ulceration with bleeding and/or perforation, vomiting. Renal: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis. Hematologic: agranulocytosis, eosinophilia, granulocytopenia, leukopenia, thrombocytopenia. CNS: depression, dream abnormalities, inability to concentrate, insomnia, malaise, myalgia and muscle weakness. Dermatologic: alopecia, photosensitive dermatitis, skin rashes. Special Senses: hearing impairment. Cardiovascular: congestive heart failure. Respiratory: eosinophilic pneumonitis. General: anaphylactoid reactions, menstrual disorders, pyrexia (chills and fever). Causal Relationship Unknown: Hematologic: aplastic anemia, hemolytic anemia. CNS: aseptic meningitis, cognitive dysfunction. Dermatologic: epidermal necrolysis, erythema multiforme, photosensitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa, Stevens-Johnson syndrome, urticaria. GI: non-peptic GI ulceration, ulcerative stomatitis. Cardiovascular: vasculitis. General: angioneurotic edema, hyperglycemia, hypoglycemia. **Overdosage:** May have drowsiness, heartburn, indigestion, nausea, vomiting. A few patients have had seizures. Empty stomach and use usual supportive measures. In animals 0.5 g/kg of activated charcoal reduced plasma levels of naproxen. **Caution:** Federal law prohibits dispensing without prescription. See package insert for full Prescribing Information.

\* Incidence of reported reaction 3%-9%.

Where unmarked, incidence less than 3%.

U.S. patent nos. 3,904,682, 3,998,966 and others.

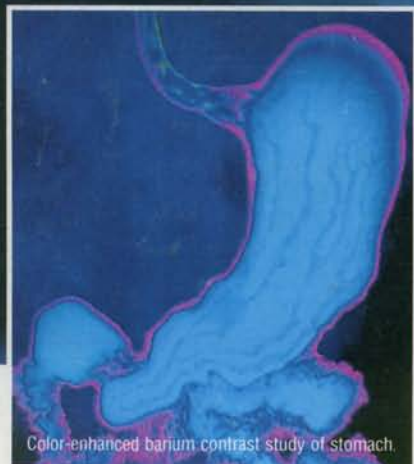
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A proven efficacy and safety profile backed by 16 years of clinical success.

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

Please see brief summary of prescribing information on adjacent page.

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.

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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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