Today's hypertensives with new concerns... The JNC now recommends selective alpha₁-blockers as a fi<u>rst choice</u>

CARDURA GENERATION

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

Choose CARDURA for around-the-clock blood pressure control that doesn't jeopardize blood lipids or blood sugar.²⁴

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



Please see brief summary of prescribing information on next page. ©1993, Pfizer Inc



References: 1. The fifth report of the Joint National Committee (JNC) on the Detection, Evaluation, and Treatment of High Blood Pressure (JNC V). Presented to the National High Blood Pressure Education Program Coordinating Committee, June 25, 1992.
2. Pickering TG, Hypertension and Lipid Trial Study Group. The use of 24-hour ambulatory monitoring in the assessment of antihypertensive therapy. Presented at the American Academy of Family Physicians 43rd Annual Assembly; September 24-29, 1991; Washington, D.C. 3. The Treatment of Mild Hypertension Research Group. The Treatment of Mild Hypertension Study: a randomized, placebor controlled trial of a nutritional-hygienic regimen along with various drug monotherapies. Arch Intern Med. 1991; JS1:141:31-423. 4. Lethonen A, the Finnish Multicenter Study Group. Lowered levels of serum insulin, glucose, and cholesterol in hypertensive patients during treatment with doxazosin. Curr Ther Res. 1990; A7:278–284.

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

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

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

WARNINGS

Syncope and "First-dose" Effect:

Doxazosin, like other alpha-adrenergic blocking agents, can cause marked Doxazosin, like other alpha-adrenergic blocking agents, can cause marked hypotension, especially in the upright position, with syncops and other postural symptoms such as dizziness. Marked orthostatic effects are most common with the first dose but can also occur when there is a dosage increase, or if therapy is interrupted for more than a few days. To decrease the likelihood of excessive hypotension and syncope, it is essential that

treatment be initiated with the 1 mg dose. The 2, 4, and 8 mg tablets are not for initial therapy. Dosage should then be adjusted slowly (see DOSAGE AND ADMINISTRATION section) with increases in dose every two weeks. Additional antihypertensive agents should be added with caution. Patients being titrated with doxazosin should be cautioned to avoid situations where injury could result should syncope occur.

In an early investigational study of the safety and tolerance of increasing daily doses of doxazosin in normotensives beginning at 1 mg/day, only 2 of 6 subjects could tolerate more than 2 mg/day without experiencing symptomatic subjects could oblight inder and 2 implay who be subjects experiencing symptomatic postural hypothesion. In another study of 24 whealthy normationsive male subjects exceiving initial doses of 2 mg/day of doxazosin, seven (29%) of the subjects experienced symptomatic postural hypotension between 0.5 and 6 hours after the first dose necessitating termination of the study. In this study 2 of the normotensive subjects experienced syncope. Subsequent trials in hyperte

homorenve subjects experienced syncope, subsequent trais in hypertensive patients always began doxazoit dosing at 1 mg/day resulting in a 4% incidence of postural side effects at 1 mg/day with no cases of syncope. In multiple dose clinical trais involving over 1500 patients with dose titration every one to two weeks, syncope was reported in 0.7% of patients. None of these events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at 16 mg/day.

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

General

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

were common in clinical trails, occurring in up to 23% of all patients treated and causing discontinuation of therapy in about 2%. In placebo controlled titration trials orthostatic effects were minimized by beginning therapy at 1 mg per day and titrating every two weeks to 2, 4, or 8 mg per day. There was an increased frequency of orthostatic effects in patients given 8 mg or more, 10%, compared to 5% at 1-4 mg and 3% in the placebo group. Patients in occupations in which orthostatic hypotension could be dangerous

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

Contrandication to further duces on Control of 2. Impaired liver function: CARDURA should be administered with caution to patients with evidence of impaired hepatic function or to patients receiving drugs known to influence hepatic metabolism (see CLINICAL PHARMACDLOGY). There is no controlled clinical nce with CARDURA in pa 3. Leukopenia/Neutropenia

Analysis of hematologic data from patients receiving CARDURA in controlled clinical trials showed that the mean WBC (N=474) and mean neutrophil counts (N=419) were decreased by 2.4% and 1.0% respectively, compared to placebo, a phenomenon seen with other alpha blocking drugs. A search through a data base of 2400 patients revealed 4 in which drug-related neutropenia could not be ruled out. Two had a single low value on the last day of treatment. Two had stable non-progressive neutrophil counts in the 1000/mm² range over periods of 20 and 40 weeks. In cases where follow-up was available the WBCs and neutrophil counts returned to normal after discontinuation of CARDURA. No patients became symptomatic as a result of the low WBC or neutrophil of

Information for Patients:

Patients should be made aware of the possibility of syncopal and orthostati symptoms, especially at the initiation of therapy, and urged to avoid driving or hazardous tasks for 24 hours after the first dose, after a dosage increase, and after interruption of therapy when treatment is resumed. They should be cautioned to avoid situations where injury could result should syncope occur during initiation of doxazosin therapy. They should also be advised of the need to sit or lie down when symptoms of lowered blood 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 doxazosin, requiring caution in people who must drive or operate heavy machinery

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

Drug/Laboratory test interactions:

Cardiac Toxicity in Animals:

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

responsely the sine events and events and an annual results occur in numers. Carcinogenesis, Mutagenesis and Impairment of Fertility: Chronic dietary administration (up to 24 months) of doxazosin mesylate at maximally tolerated concentrations (highest dose 40 mg/kg: about 150 times the maximum recommended human dose of 16 mg/60 kg) revealed no evidence of carcinogenicity in rats. There was also no evidence of carcinogenicity in a similarly conducted study (up to 18 months of dietary administration) in mice. The mouse study, however, was compromised by the failure to use a maximally plerated dose of doxazosin. Mutagenicity studies revealed no drug- or metabolite-related effects at either

Mutagenicity subles revealed in or up or instance, where there exercises a constraint of the chromosomal or subchromosomal levels. Studies in rats showed reduced fertility in males treated with doxazosin at oral doses of 20 (us not 50 or 10) myky(day, about 75 times the maximum recommended human dose. This effect was reversible within two weeks of drug thdrawa

Pregnancy

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

Radioactivity was found to cross the placenta following oral administration of labelled doxa labelled doxazosin to pregnant rats. Nonteratogenic Effects. In peri-postnatal studies in rats, postnatal developm

at maternal doses of 40 or 50 mg/kg/day of doxazosin was delayed as evidenced by slower body weight gain and a slightly later appearance of anatomical features and reflexes.

Nursing Mothers

Studies in lactating rats given a single oral dose of 1 mg/kg of [2-34C]-doxazosin indicate that doxazosin accumulates in rat breast milk with a max concentration about 20 times greater than the maternal plasma concentration. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when CARDURA is inistered to a nursing mother

Pediatric Use

tiveness in children have not been established Safety and effe ADVERSE REACTIONS

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

heart rate disturbance, each about 0.7%. In controlled clinical trials directly comparing CARDURA to placebo there was no significant difference in the incidence of side effects, except for dizziness (including postural), weight gain, somnolence and fatigue / malaise. Postural effects and edema appeared to be dose related.

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

TABLE 1 ADVERSE REACTIONS DURING PLACERO CONTROLLED STUDIES

12111	S	DOXAZOSIN (N=339)	PLACEBO (N=336)
CARDIOVASCULAR:	Dizziness	19%	9%
	Vertigo	2%	1%
	Postural Hypotension	0.3%	0%
	Edema	4%	3%
	Palpitation	2%	3%
	Arrhythmia	1%	0%
	Hypotension	1%	0%
	Tachycardia	0.3%	1%
	Peripheral Ischemia	0.3%	0%
SKIN APPENDAGES:	Rash	1%	1%
	Pruritus	1%	1%
MUSCULOSKELETAL:	Arthralgia/Arthritis	1%	0%
	Muscle Weakness	1%	0%
	Myalgia	1%	0%
CENTRAL &			
PERIPHERAL N.S.:	Headache	14%	16%
	Paresthesia	1%	1%
	Kinetic Disorders	1%	0%
	Ataxia	1%	0%
	Hypertonia	1%	0%
	Muscle Cramos	1%	0%

		DOXAZOSIN (N=339)	PLACEBO (N=336)
AUTONOMIC:	Mouth Dry	2%	2%
The second second second	Flushing	1%	0%
SPECIAL SENSES:	Vision Abnormal	2%	1%
	Conjunctivitis/Eye Pain	1%	1%
	Tinnitus	1%	0.3%
PSYCHIATRIC:	Somnolence	5%	1%
	Nervousness	2%	2%
	Depression	1%	1%
	Insomnia	1%	1%
	Sexual Dysfunction	2%	1%
GASTROINTESTINAL:	Nausea	3%	4%
	Diarrhea	2%	3%
	Constipation	1%	1%
	Dyspepsia	1%	1%
	Flatulence	1%	1%
	Abdominal Pain	0%	2%
S SCHOOL SEA	Vomiting	0%	1%
RESPIRATORY:	Rhinitis	3%	196
	Dyspnea	1%	1%
	Epistaxis	1%	0%
URINARY:	Polyuria	2%	0%
	Urinary Incontinence	1%	0%
	Micturation Frequency	0%	2%
GENERAL:	Fatigue/Malaise	12%	6%
	Chest Pain	2%	2%
	Asthenia	1%	1%
	Face Edema	1%	0%
	Pain	2%	2%

Additional adverse reactions have been reported, but these are, in general, not distinguishable from symptoms that might have occurred in the absence of exposure to doxazosin. The following adverse reactions occurred with a requency of between 0.5% and 1%: syncope, hyposthesia, increased sweating, agitation, increased weight. The following additional adverse reactions were reported by <0.5% of 3960 patients who received doxazosin in controlled or open, short- or long-term clinical studies, including international studies. Cardiovascular System: angina pectoris, myocardial infarction, cerebrovascular accident; Autonomic Nervous System: pallor; Metabolic: thirst, gout, hypokalemia; Hematopoletic: lymphadenopathy, purpura; Reproductive System: breast pain; Skin Disorders; alopecia, dry skin, eczema; Central Nervous System paresis, tremor, twitching, confusion, migraine, impaired concentration; Psychiatric: paroniria, amnesia, emotional lability, abnormal thinking, depersonalization; Special Senses: parosmia, earache, taste perversion, photophobia, abnormal lacrimation: Gastrointestinal System: increased appetite. anorexia, fecal incontinence, gastroenteritis; Respiratory System: bronchos sinusitis, coughing, pharyngitis; Urinary System: renal calculus; General Body System: hot flushes, back pain, infection, fever/rigors, decreased weight

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

No data are available in regard to overdosage in huma

The oral LOss of doxazosin is greater than 1000 mg/kg in mice and rats. The most likely manifestation of overdosage would be hypotension, for which the usual treatment would be intravenous infusion of fluid. As doxazosin is highly protein bound, dialysis would not be indicated. DOSAGE AND ADMINISTRATION

DOSAGE MUST BE INDIVIDUALIZED. The initial dosage of CARDURA in DUSAGE MUST BE INDIVIDUALIZED. The initial dosage of CARDURA in hypertensive patients is 1 mg given once daily. This starting dose is intended to minimize the frequency of postural hypotension and first dose syncope associated with CARDURA. Postural effects are most likely to occur between 2 and 6 hours after a dose. Therefore blood pressue measurements should be taken during this time period after the first dose and with each increase in dose. Depending on the individual patient's standing blood pressure response (based on measurements taken at 2-6 hours postdose and 24 hours postdose), dosage may then be increased to 2 mg and thereafter if necessary to 4 mg, 8 mg and 16 may not be increase to 2 mg and uncertain in plood pressure. Increases in dose beyond 4 mg increase the likelihood of excessive postural effects including syncope, postural dizziness/vertigo, postural hypotension. At a titrated dose of 16 mg once daily the frequency of postural effects is about 12% compared to 3% for placebo.

HOW SUPPLIED

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

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

(orange) and 8 mg (green) scored tablets. Bottles of 100: 1 mg (NDC 0049-2750-66), 2 mg (NDC 0049-2760-66), 4 mg (NDC 0049-2770-66), 8 mg (NDC 0049-2780-66)

Recommended Storage: Store below 86°F(30°C). CAUTION: Federal law prohibits dispensing without prescript Issued Nov 1990 65-4538-00-0



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CALAN[®] SR FOR HYPERTENSION— A BALANCE **OF GENTLENESS AND POWER**

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The recommended starting dosage for Calan SR is 180 mg once dally. 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

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 dituretics 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 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 vertincular response or ventricular fibrillation after receiving IV, verapamil (or digitals). 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 degree. 0.8%). Development of marked 1st-degree block or progression to 2nd- or 3rd-degree block requires reduction in dosage or, rarely, discontinuation and institution of appropriate therapy. Sinus bradycardia, 2nd-degree AV block, sinus arrest, pulmonary edema and/or severe hypoten-sion were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated

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. Veraparnil may decrease neuromuscular transmission in patients with Duchenne's muscular dys Verapamil may decrease neuromuscular transmission in patients with Duchennes muscular dys-trophy 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 digital to xorkin 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 digitaxin. 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 flecamide 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 cyclosponn. 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 tumongenic 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

ONCE-DAII

Vergamin 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 fiver enzymes, reversible non-obstructive paralytic ileus. The (1 2%), flushing (0.6%), elevated hver enzymes, reversible non-obstructive paralytic reus. The following reactions, reported in 1.0% or less of patients, occurred under conditions where a causal relationship is uncertain angina pectoris, atrioventricular dissociation, chest pain, claudi-cation, myocardial infarction, palpitations, purpura (vasculitis), syncope, diarthea, dvy mouth, gastrointestinal distress; gingival hyperplasia, ecchymosis or bruising, cerebrovascular accident, confusion, equilibrium disorders, insomnia, muscle cramps, paresthesia, psychotic symptoms, shakiness, somolence, arthralgia and rash, exanthema, hair loss, hyperkeratosis, macules, sweating, urticaria, Stevens-Johnson syndrome, erythema multiforme, blurred vision, gynecomas-tia, galactorrhea/hyperprolactinemia, increased urination, spotty menstruation, impotence. 2/13/92 • P92CA7196V



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"My medicine knocks the pain out, but it knocks me out too...

I guess it's probably the best I can hope for."

MORE OF YOUR PATIENTS MAY

Because it works fast.1

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.¹ Because it is nonsedating.

MIGRAINE RELIEF THAT CAN CHANGE PATIENTS' LIVES

SUBCUTANEOUS

Imitrex[™](sumatriptan succinate) Injection For Subcutaneous Use Only

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

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

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

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

Imitrex Injection should not be used concomitantly with ergotamine-containing preparations

nitrex injection is contraindicated in patients with hypersensitivity to sumatrintan

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

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

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

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

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

General: Chest, jaw, or neck tightness is relatively common after Imitrexⁿ Injection, but has only rarely been associated with ischemic ECG changes. Imitrex Injection may cause mild, transient elevation of blood pressure and peripheral vascular resistance.

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

patients who are advised to self-administer lmitrex Injection in medically unsupervised situations should receive instruction on the proper use of the product from the physician or other suitably qualified health care professional prior to doing so for the lirst time. Information for Patients: See PATIENT INFORMATION at the end of the product package insert for the text of the separate leaflet provided for patients

Laboratory Tests: No specific laboratory tests are recommended for monitoring patients prior to and/or after treatment with Imitrex Injection. Drug Interactions: There is no evidence that concomitant use of migraine prophylactic medications has any effect on the efficacy or unwanted effects of sumatriptan. In two Phase III trials in the US, a retrospective analysis of 282 patients who had been using prophylactic drugs (verapamil n=63, amitriptyline n=57, propranolol n=94, for 45 other drugs n=123) were compared to those who had not used prophylaxis (n=452). There were no differences in relief rates at 60 minutes postdose for Imitrex Injection, whether or not prophylactic medications were used. There were also no differences in overall adverse event rates between the two groups.

Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because there is a theoretical basis that these effects may be additive, use of ergotamine and sumatriptan within 24 hours of each other should be avoided (see CONTRAINDICATIONS). Drug/aboratory Test Interactions: Imitrex Injection is not known to

interfere with commonly employed clinical laboratory tests. Carcinogenesis, Mutagenesis, Impairment of Fertility: In a 104-week lifetime study in rats given sumatriptan by oral gavage, serum concentrations achieved were dose related, ranging at the low dose from approximately twice the peak concentration of the drug after the recommended human subcutaneous dose of 6 mg to more than 100 times this concentration at the high dose. There was no evidence of an increase in tumors considered to be related to sumatriptan administration. In a 78-week study in which mice received sumatriptan

continuously in drinking water, there was no evidence for an increase in tumors considered to be related to sumatriptan administration. That study, however, did not use the maximum tolerated dose and therefore did not fully explore the carcinogenic potential of IMX445RC

Imitrex[™] (sumatriptan succinate) Injection in the mouse.

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

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

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

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

throughout organogenesis at doses producing plasma concentrations more than 50 times those seen after the recommended subcutaneous human dose did not cause embryolethality. In a study of pregnant rats given subcutaneous sumatriptan daily prior to and throughout pregnancy, there was no evidence of increased embryo/fetal lethality. Teratogenicity: Term fetuses from Dutch Stride rabbits treated during

organogenesis with oral sumatriptan exhibited an increased incidence of cervicothoracic vascular defects and minor skeletal abnormalities. The functional significance of these abnormalities is not known.

In a study in rats dosed daily with subcutaneous sumatriptan prior to and throughout pregnancy, there was no evidence of teratogenicity. Studies in rats and rabbits evaluating the teratogenic potential of

sumatriptan administered subcutaneously only during organogenesis

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

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

ADVERSE REACTIONS: (see also PRECAUTIONS) Sumatriptan may cause coronary vasospasm in patients with a history of coronary artery disease, known to be susceptible to coronary artery vasospasm, and very rarely, without prior history suggestive of coronary artery disease. There have been rare reports from countries in which Imitrex™

Injection has been marketed of serious and/or life-threatening arrhythmias, including atrial fibrillation, ventricular fibrillation, ventricular tachycardia; myocardial infarction; and marked ischemic ST elevations associated with Imitrex Injection (see WARNINGS). More often, there

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

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

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

Treatment-Emergent Adverse Experience Incidence in Two Large Placebo-Controlled Clinical Trials: Eν bu at least 19/ of l

ents nepurieu by at Least 1%	or minutes injectio	ai raucius
	Percent of Patier	nts Reporting

	I dioonit of Functing hoperang	
	Imitrex Injection	
	6 mg SC	Placebo
Adverse Event Type	n=547	n=370
Atypical sensations	42.0	9.2
Tingling	13.5	3.0
Warm/hot sensation	10.8	3.5
Burning sensation	7.5	0.3
Feeling of heaviness	7.3	. 1.1
Pressure sensation	7.1	1.6
Feeling of tightness	5.1	0.3
Numbness	4.6	2.2
Feeling strange	2.2	0.3
Tight feeling in head	2.2	0.3
Cold sensation	1.1	0.5
Cardiovascular		
Flushing	6.6	2.4
Chest discomfort	4.5	1.4
Tightness in chest	2.7	0.5
Pressure in chest	1.8	0.3
Ear, nose, and throat		
Throat discomfort	3.3	0.5
Discomfort: nasal cavity/sinuses	22	0.3

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

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

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

Event frequencies are calculated as the number of patients reporting an event divided by the total number of patients (n=6,218) exposed to subcutaneous Imitrex Injection. Given their imprecision, frequencies for specific adverse event occurrences are defined as follows "infrequent" indicates a frequency estimated as falling between 1/1,000 and 1/100; "rare," a frequency less than 1/1,000.

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

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

Eve: Infrequent was irritation of the eve.

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

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

relaxation, chills, sensation of lightness, tremor, shivering, disturbances of taste, prickling sensations, paresthesia, stinging sensations, headaches, facial pain, photophobia, and lachrymation. Rare were transient hemiplegia, hysteria, globus hystericus, intoxication, depression, myocionia, monoplegia/diplegia, sleep disturbance, difficulties in concentration, disturbances of smell, hyperesthesia, dysesthesia, simultaneous hot and cold sensations, tickling sensations, dysarthria, yawning, reduced appetite, hunger, and dystonia. Respiratory: Infrequent was dyspnea. Rare were influenza, diseases

of the lower respiratory tract, and hiccoughs.

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

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

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

Postmarketing Experience: Frequency and causality for sumatriptan are not established for many of the following reports, which come from worldwide postmarketing experience: Episodes of Prinzmetal's angina, myocardial infarction, acute renal failure, seizure, cerebrovascular accident, dysphasia, subarachnoid hemorrhage, and arrhythmias (atrial fibrillation, ventricular fibrillation, and ventricular tachycardia). Hypersensitivity to Imitrex Injection has been reported, including anaphylactoid reactions, rash, urticaria, pruritus, erythema, and shortness of breath

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

SUC7

CERENEX

RL-038

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May 1993

Count On

How much of the information you share with your patients really registers with them? After all, they may be worried . . . preoccupied. They listen to what you have to say, but do they *hear* you? By the time they arrive home, they may remember less than you'd like about their medical condition and the treatment you've prescribed for them.

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 The benefits of long-acting nifedipine therapy for hypertension*1

Real Human Value

- · Convenient, well-tolerated therapy
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 Lower price (AWP) than Procardia XL⁹ 30 mg, 60 mg and 90 mg—potential 25% savings⁺⁺²

Not indicated for angina. Take on an empty stomach. Careful titration may be necessary when switching between Procardia XL and Adalat* CC.

 Calculations based on suggested Average Wholesale Price (AWP).
 Procardia XL is a registered trademark of Pfizer Labs Division, Pfizer Inc.

Please see brief summary of Prescribing Information on back of this page.

Candidate Profile

Name	Kevin H.
Age	46
Residence	Hartford
Pretreatment BP	150/92
Marital Status	engaged
Health Ins	\$250 deductible.
	no Rx plan

"Save up to \$192[†] a year? That's the new snow tires I need."



5/93

Start with* Titrate, if necessary* R Ŗ Adalat CC Adalat CC 30mg once daily 60mg once daily

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

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

P710074485

INDICATION AND USAGE: ADALAT CC is indicated for the treatment of hyperten-It may be used alo ne or in combination with other antihypertensive agent

INDICATION AND USAGE: AUALAI US is indicated for the treatment of hyperfersion. It may be used alone or in combination with them antihypertensive agents. CONTRAINDICATIONS: Known hypersensitivity to nitedipine. WARNINGS: Excessive Hyperfersion: Although in most patients the hypotensive effect of nitedipine is modest and well tolerated, occasional patients have had excessive and poorly tolerated hypotension. These responses have usually occurred during initio tirction or at the time of subsequent upward dosage adjustment, and may be more likely in patients using concention theto-blockers. Severe hypotension ad/or increased fluid volume requirements have been reported in patients who received immediate release capsules together with a beto-blocking agent and who underwent coronary artery bypos surgery using high dose fentonyl appears to be due to the combination of nitedipine and a beto-blocker, but the possibility that it may occur with infedipine alone, with low doses of fentony, in other surgical procedures, or with other narcoit cand-gesis cannot be ruled out. In nifedipine-treat-ed patients where surgery using high dose fentonyl anesthesia is contemplated, the physicion should be aware of these potention problems and, if the patient's condition per-mits, sufficient time (at least 36 hours) should be allowed for nifedipine to be weaked out of the body prior to surgery.

be allowed for nitedipine to be washed out of the body prior to surgery. Increased Angina and/or Myocardial Infarctions: Rarely, patients, particularly those who have severe obstructive acromary artery disease, have developed well docu-mented increased frequency, duration and/or severity of angina or acute myocardial inforction upon starting nitedipine 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 Bore-biocker withardwal: when asconnung a betr-biocker it is important to tape its does, if possible, rather than stopping abruptly before beginning antiedipine. Patients recently withdrawn from beta blockers may develop a withdrawal syndrome with increased angina, probably related to increased sensitivity to catecholamines. Initiation of mitedipine treatment will not prevent this occurrence and on occasion has been reported to increase.

been reported to increase it. **Congestive Heart Failure:** Rarely, patients (usually while receiving a beto-blocker) have developed heart failure after beginning nitedipine. Patients with tight aartic steno-sis may be at greater risk for such an event, as the unloading effect of nitedipine would be expected to be of less benefit to these patients, awing to their fixed impedance to

Now across me corris voive. PRECAUTIONS: General - Hypotension: Because nifedipine decreases peripheral vascular resistance, careful monitoring of blood pressure during the initial administra-tion and titration of ADALATCC is suggested. Gose observation is especially recommend-ed fla patients already taking medications that are known to lower blood pressure (See the second WARNINGS).

WARNINGS). Peripheral Edemas: 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 vascilitation 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 competive heart failure, cars should be taken to differ-entiate this peripheral edema from the effects of increasing left ventricular dysfunction. Information for Patients: ADALAT CC is an extended release table and should be swallowed whole and taken an an empty stamach. It should not be administered with food. Do not chew, divide or crush tables.

food. Do not chew, divide or crush tablets. Laboratory Tests: Rore, usually transient, but occasionally significant elevations of earymes such as inkaine phosphatose, CPK, IDH, SGOT, and SGPT have been noted. The relationship to nifedipine therapy is uncertain in most cases, but probable in some. These laboratory adnormalities have rarely been associated with clinical symptoms; however, cholestasis with or without joundice has been reported. A small increase (<5%) in mean alkaline phosphatase was noted in patients treated with ADALAT (C. This was an isolated finding and it rarely resulted in values which field outside the normal range. Rare instances of allergic hepatilits have been reported with nifedipine treatment. In controlled studies, ADALAT (C did not adversely affect serum uric add, glucose, cho-lesterol or notesism. lesterol or potassium

Nifedipine. like other calcium channel blockers, decreases platelet aggregation in vitra Nifedipine, like other calcium channel blockers, decreases platelet aggregation in vitro. Umited 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 (combs' 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.

The anisotrate by the relationship to interciptine therapy is obtained in miss coses and probable in some. **Drug Interactions:** Beto-adrenergic blacking agents: (See WARNING5). ADALAT (C wave Will loterated when administered in combination of mitedipine and beto-adrenergic blacking drugs may increase the likelihood of competitive heat failure, severe hypotension, or excerbation of angine in patients with aerdsovscular discover failure, severe hypotension, or excerbation of angine in patients with aerdsoverscular discover failure, severe hypotension, or excerbation of angine in patients with aerdsoverscular discover lightalis: Since there have been isolated reports of patients with elevated digoxin levels, and there is a possible interaction between digoxin and ADALAT (C, I is recommended that digoxin levels be monitored when initiating, adjusting, and discontinuing ADALAT (C to avaid possible ever- or under-digitalization. Coumarin Anticoagulants: There have been rare reports of increased prothrombin time in patients taking coumarin anticoagulants to whom mitedipine was administered. However, the relationship to mitedipine therapy is uncertain. Quindine: There have been rare reports of an interaction between quinidine and nifedipine (with a decreased plasma level of quinidime).

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 or the inst-spass metobolism of nifedipine. It nifedipine therapy is initiated in a patient currently receiving cimetidine, cautious titration is advised

non n aurosea. Carcinagenesis, Mutagenesis, Impairment of Fertility: Nifedipine was adminis-tered atally to rats for two years and was not shown to be carcinagenic. When given to rats prior to mating, nifedipine caused reduced fertility at a dose approximately 30 times the maximum recommended human dose. In vivo matagenity's studies were negnes the maxir

ative. Pregnancy: Pregnancy Category C. In rodents, robbits and mankeys, nifedipine has been shown to have a variety of embrydoxic, placentatoxic and fetoxic effects, inclu-ing stunted fetuses (rats, mice and robbits), digital anomalies (rats and robbits), rib detormities (mice), def palate (mice), small placentas and underdeveloped chorinair villi (mankeys), embryonic and fetoli deaths (rats, mice and robbits), prolonged pregnancy (rats; not evaluated in other species), and decreased neonatal survival (rats; not evalua-ed in other species). On a mg/kg or mg/m² 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 amonities seen in in infedigine-exposed rabbit pups are strikingly similar to those seen in pups exposed to phenytoin, and these are in turn similar to the pha-langed deformities that are the most common malformation seen in human children with in utere resposure to phenytoin.

Into a contract of the second second

reus. 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.

importance of the drug to the mather. **ADVERSE EXPERIENCES:** The incidence of adverse events during treatment with ADALAT (C in doess up to 90 mg daily were derived from multi-center placebo-con-trolled chinical trials in 370 hypertensive patients. Atenolal 50 mg once daily was used concomitantly in 187 of the 370 patients on ADALAT (C and in 64 of the 126 patients on placebo. All adverse event reported during ADALAT (C therapy were tobulated inde-pendently of their causal relationship to medication. The most common adverse event reported with ADALAT (C and in 64 of the 126 patients) adbaLAT (C talo mg daily and 29% on ADALAT (C 90 mg daily versus 10% on placebo. Other common adverse events reported in the above placebo-controlled trials includer. Headanche (19%, versus 13% placebo incidence), Flushing/heat sensation (4%, versus 0% placebo incidence): Daziness (4%, versus 2% placebo incidence); flushing/east-less dathenia (4%, versus 4% placebo incidence). Nousea (2%, versus 1% placebo incidence); Constipation (1%, versus 0% placebo incidence).

(1%), versus 4% procead incluence), Mausia (2%), versus 1% procead incluence), Constipation (1%), versus 0% placebo incluence). 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:

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

tence, 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, extracystole, hypotension, polaitations, phelatis, postural hypotension, tachycardia, cutaneous ang-iectoses Central Nervous System: anxiety, confusion, decreased libido, depression, hypertonia, insomnio, somolence Dermatologic: pruritus, sweating Gastrointestimal chadominal pain, diarrhea, dry mouth, dyspessi, esophaghis, flatu-lence, gostrointestinal hemorrhage, vomiting Hematologic: lymphadenopathy Metabolic: gout, weight loss Musculoskeleal: arthralgia, arthritis, myalgia Respiratory: dyspne, increased coogh, rales, pharyngitis Special Senses: abaor-mal vision, ambyopia, conjunctivitis, diplopia, finnitus Urogenital/Reproductive: kidney calculus, nocturia, brese encorement

ma risoli, amoyopia, conjunctivnis, anjopia, minints oregeniza/reproductive: kidney calculus, nacturia, breast engargement The following adverse events have been reported rarely in patients given nifedipine in other formulations: allergenic hepatitis, alopecia, anemia, arthritis with ANA (+), depression, erythromelalgia, exfoliative dermatitis, lever, gingival hyperplasia, gyneco-mastia, leukopenia, mood changes, muscle cramps, nervourses, paranoid syndrome, purpura, shakiness, sleep distribunces, syn-crame, cramps, nervourses, paranoid syndrome, purpura, shakiness, sleep distribunces, syn-

cope, taste perversion, thrombocytopenia, transient blindness at the peak plasma level, tremor and urticaria

Termor and urncana. DOSAGE AND ADMINISTRATION: Dosage should be adjusted according to each patient's needs. It is recommended that ADALAT CC be administered arally once daily

ADALAT CC be administered only one chairs on an empty stomach. ADALAT CC is an extended release dosage form and tablets should be swallowed whole, not bitter or divided. In general, ittration should be based on therapeutic efficacy and stafty. 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 dinical practice suggests that the dosage should be decreased gradually with dose physician supervision. Care should be taken when dispensing ADALAT CC to assure that the extended release dosage form has been prescribed.

PZ100744B5	5/93	© 1993 Miles Inc.	3060 Printed in USA

References:

 Data on file, Miles Inc.
 Redbook Update. Oradell, NJ, Medical Economics Co., March 1993;p. 32.



Pharmaceutical Division

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NEW LOW-DOSE

ALITTLE MEANS A LOT

TARIE

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

Favorable metabolic profile⁺ - no effect on lipids, only 2% incidence of clinical hypokalemia*

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[®] (indapamide) 1.25 mg and 2.5 mg tablets

BIEF SUMARY INDICATONS: LOZOL (indepanticle) is indicated for the treatment of hypertension, alone or in combination with other anthypertensive drugs, and for the treatment of salt and fuid reference associated with concestive heart failure. Usage in Pregnancy: See PRECAUTIONS. CONTRAINCICATIONS: Aruria, hypersensitivity to indepantide or other sufformande-

and two retention associated with congester heart rature. Usage in Preprincip See PPECAITIONS. CONTRAINDCATIONS: Anura, hypersensitivity to indiparticle or other sulforamide-dented drugs. WARMINS: Infrequent cases of severe hyporatemia, accompanied by hypokalema, have been reported with 2.5 mg and 5.0 mg indiparticle models. Symptoms were reversed by electrolyte replensitiment. Hyponatremia considered possibly cinically significant (<125 mEQL) has not been coberned in clinical trails with the 1.5 mg dosage (see PPECAUTIONS). Hypokalemia, and electrolyte monitoring is seperital in page 1.0 mg and 1.0 mg indiparticle determinations at appropriate intervals. especially in patients who are vorting excessively or reaving parential flucts. Subtom 1.0 mg and 1.0 mg

After six to eight weeks of indepandie 1.25 mg treatment and in long-term studies of hypertensive patients with higher doese of indepandie, however, serum concentrations of calcium moreased myl sightly with indepandie indepandie may dorases serum PBI levels without signs of thrond disturbance. Complications of hyperparathymolism have not been seen. Discontinue before lests of parathymolism Thiazobas have exacehated or activated systemic lique srythematosus. Consider this

possibility with independe DRUG INTERACTIONS: LOZOL may add to or potentiate the action of other anthppersistes dug. The anthppetensive effect of the drug may be enhanced in the postsympathectomized patient. Independent may decrease afterial responsiveness to nonspendent lifetime acconception studies, there are no significant differences in the incidence of tumors between the independent-treated animals and the control

groups. Programy Category B: Diuretos cross the placental barrier and appear in cord blood. Indigamids should be used during pregnary only if clearly needed. Use may be associated with tetal or neonatal aundice, thrombocytopena, and possibly ofther redverse effects that have occurred in adults. It is not known whether this drug is excreted in human mik. If use of this drug is deemed essential, the patient should stop

excreted in human mix. If use of this drug is deemed essertial, the patient should stop-nursing. **ADVERSE REACTIONS:** Most adverse effects have been mix and transient. From These IIII placeboortholid studies with indegaride 122 bing adverse reactors with 25% cumulative incidence: ashenia, flu syndrome, abdominal pain, chest pain, constipation, diamite, dyspepsis, nausea, perpheral edema, nervolanses, hypertonia, cough, pharyngis, sinusite, comproduist. Al other cinical adverse reactors without and 60% of patients receiving robusting that sol sits to estimate the solution. 20% of patients receiving indepandie 125 mg drugs at least one potential source source at and 60% of patients receiving robusting values and uses one patients with be posted https:// this desting. The product and takes in the potential source of solution, 20% of patients receiving indepandie 125 mg drugs, about 40% of those patients who reported hypokalemia as a laboratory adverse event returned to normal serum patients accessed in 2% of patients receiving indepandie 125 mg. From Filmal serum patients accessed in 2% of patients receiving indepandie 125 mg. Those These patients accesses is of energy, therms controled drugs that basis one potential serum patients could in 2% of patients receiving indepandie 125 mg. Those These source of in 2% of patients receiving indepandie 125 mg. Those These source of in 2% of patients receiving indepandie 125 mg. Those These patients accurate in 2% of patients receiving indepandie 125 mg. Those These source of in 2% of patients receiving indepandie 126 mg. Those these source of in 2% of patients receiving indepandie 126 mg. Those These source of in 2% of patients receiving indepandie 126 mg. Those These source of in 2% of patients receiving indepandie 126 mg. Those These source of in 2% of patients receiving indepandie 126 mg. Those These source of the indepandie 126 mg. Those these indepandie 126 mg. Those these source of indepandies indepandies of mg. Those indepandies indepandie agliator, Shi currulane noberoc iguineadores, travaises, vengo, technica depression, burend vision, constgation, nausea, voning, daimeta, agricia initiatori, abdominal pain or cramps, anorexia, orthostatic hypotension, premature ventinicari contractoris, irregular haar beal, pablitations, frequency of unatori, noturia, polyuna, rash, hives, pruntex, vascullis, impotence or reduced libido, hinorita, lushing, hyperuricema, hyperglycema, hyponatemia, hypochlorema, increase in serum BUN

or creatinine, głycosuria, weigłt loss, dry mouth, tinging of extremites. Hypokalemia with concomitant clinical signs or symptoms occurred in 3% of patients receiving indipamide 25 mg qd. and 7% of patients receiving indipamide 5 mg qd. In long-term controlled clinical trials companing the hypokalemic effects of dally doses of indipamide and hydrochlorothiazde, however, 47% of patients receiving indipamide 25 mg 72% of patients receiving indipamide 5 mg, and 44% of patients receiving hydrochlorothiade 50 mg had a triascl neo potsawn wale (or d of batel of 11 taient dung the study) below 35 mEq. L in the indipamide 25 mg group, over 50% of those patients returned to normal serum potassium values without intervention. Other adverse reactions reported with anthypetensive/duretics are intrahepatic cholestatic pundice, saladentis, xanthopsis, photoensithy, pupura, bulious eruptions. Severe-Johnson synditiome, necrotating anglitis, lever, respiratory distress (including pneumotis), anaphytacic reactions, agranulocytosis, leukopena, hromkovytopena, aptiestis.

apasic artemia. CAUTION: Federal (U.S.A.) aw prohibits depensing without prescription. Keep tighty closed. Store at controlled room temperature. 15' 30'C (59'-86'F). Avoid accessive rheat. 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 potas sium 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, Rhöne-Poulenc Rorer Pharmaceuticals Inc.

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ONIC ARTHRITIS 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.



SYNTEX

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NAPROSYN (NAPROXEN) 500 mg tablet

UVer TACKLY JOUR INJECTION OF THE STATES AND THE STATESTICS THE STATESTICS AND THE STATES

Incidence of reported reaction 3%-9%. SYNTEX

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



& Sinusitis

2

CONTROVERSIES

TREATMENTS

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

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

enough for it to be useful in aborting an acute anginal episode. **Clinical Pharmacology** Isosorbide monitrate is the major active metabolite of isosorbide dinitrate; most of the clinical activity of the dinitrate comes from the mononitrate is no is not subject to first-pass metabolism in the liver and the absolute bioavailability of isosorbide mononitrate from ison tablets is nearly 100%. The rate of clearance of isono is the same in healthy young adults, in patients with various degrees of renal, hepatic, or cardiac dystunction, and in the elderly. Several well-controlled studies have demonstrated that active initrates were indistinguishable from placebo after 24 hours (or less) of continuous therapy due to the development of tolerance. Only after initrates are absent from the body for several hours is their antianginal efficacy restored. The drug-free interval sufficient to avoid tolerance to isosorbide mononitrate involves two daily doess 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 othaned for dreir organic nitrates. The same twice-daily regimen of ismo tablets successfully avoided significant rebound/withdrawal effects. In studies of the mirates, the incidence and magnitude of such phenomena appear to be highly dependent upon the schedule of initrate 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

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 pectors may accompany Ismo-induced hypotension. Nitrates may acgravate angine 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 tater). Daily headaches should not alter their treatment schedule since loss of headache may be treated with spirin 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

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 NTERACTIONS Vasodiating 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

No carcinogenic 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 it potential benefit justifies potential fetal risk.

NURSING MOTHERS

man milk is unknown. Use caution if administered to a nursing woman.

PEDIATRIC USE ectiveness have not been established

Safety and effectiver Adverse Reactions

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

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

*Some individuals discontinued for multiple reasons

Some instruouas discontinued for multiple reasons
Fewer than 1% of patients reported each of the following (in many cases a causal relationship is uncertain): Cardio-vascular; angina pectoris, arrhythmias, atrial fibrillation, hypotension, palpitations, postural hypotension, prema-ture ventricular contractions, supraventricular tachycardia, syncope. Dermatologic; pruritus, rash. Gastrointestinaj; abdominal pain, diarrhea, dyspepsia, tenesmus, tooth disorder, vomiting. Genitourinary; dysuria, impotence, urinary frequency. Miscollanceus; asthenia, biurred vision, cold sweat, dippia, edema, malate, neck stiffness, rigors. Musculoskeletal; arthraigia. Neurologic; agitation, anxiety, confusion, dyscoordination, hypoesthesia, respiratory tract infection.

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

Overdosage). Overdosage The ill effects of overdosage are generally related to the ability of Ismo to induce vasodilatation, venous pooling, 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 lever; vertigo: papitations; visual disturbances, nausea and vomting (possibly with colic and even bloody diarthea); synope (especially with upright posture); air hunger and dysnea, later followed by reduced ventilatory effort; daphoresis, with the skin either flushed or cold and clammy; heart block and bradysardia; paralysis; coma: secures and death. Serum levels have no roie 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; diagvis is ineffector. Hypotension good. In patients with renal disease or CHF, inclument of ismo overdose may be difficult and require invasive monitoring. Methemoplobinemia has occurred in patients receiving other organic nitrates, and probably could occur as a side

may be difficult and require invasive monitoring. Methemoplobienmia 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 p02-Diassically, methemoglobinemic blood is chocolate brown, without cloor 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 intrate-free interval to avoid the development of refractory tolerance (see ClinicalPharmacelogy).

Clinical Parmacology). 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, Cl 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.

PHARMACEUTICAL

A-H-ROBINS



60376





(isosorbide mononitrate) Activity You Can Count On

Antianginal activity during the active hours'*



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 $_{\rm AM}$ and 3 $_{\rm BM}$ for 2 weeks following a 1-week washout period.

Effective day after day²

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

*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.

Time for a new partnership: Part 3 of a series

Patients and physicians are buried under mountains of paperwork. Health system reform must reduce this burden now.

In the spirit of openness expressed by President Clinton, the 300,000 members of the American Medical Association (AMA) are working to forge a new partnership with the Administration and members of Congress on behalf of our patients.

Our goal is comprehensive reform of America's health care delivery system and our agenda for change is defined in our proposal, Health Access

America.

One of the recommendations in this proposal calls for a reduction of the complicated paperwork nightmare faced by patients and their families. A labyrinth of insurance regulations and forms hinders the delivery of needed health care. And it drives up costs enormously.

Administrative hassles

Our society generates an astounding four billion insurance claims every year.

Patients are bewildered by the redundance of forms ---- over 450 different kinds at last count. A single visit to a hospital or doctor's office may add 7 to 10 new pieces of paper to their files. And we think that's wrong,

Patients are also confused by what is covered by their insurance. Often it is not until

weeks after their appointment that they receive a computer generated letter telling them payments are denied.

And physicians are as frustrated as patients by all the red tape. On average, they spend one day a week on "administrative duties," oftentimes fighting bureaucrats to get proper reimbursement for their patients. This time could be better spent with people needing care.

The cost of all this paper shuffling is staggering. Government officials estimate administrative costs were nearly \$80 billion last year.

We believe that any reform measures must place our patients first.

Our agenda for change

AMA physicians support legislation that would eliminate the hassles our patients go through.

A single, uniform insurance claim form such as the form used by Medicare would replace the many forms now used by the

hundreds of different insurance companies. A standardized electronic claim format would allow physicians to file insurance claims for their patients immediately after a visit, speeding up reimbursement to patients. New tax incentives would encourage health insurers to switch to this standardized electronic billing format.

Our plan also recommends that a standard, easy-to-understand insurance benefits format be created so patients would know beforehand the services covered and what payments they will receive. Physicians would also make fee information available to patients prior to treatment.

Eleven key issues

Eliminating administrative hassles is only one part of the AMA's agenda for change. Over the course of the new Administration's first 100 days, America's physicians will

enter a dialogue with legislators and members of the Clinton team on eleven key issues leading to total health system reform.

To stay fully informed, watch for additional messages in this series in The Washington Post. And send for our comprehensive proposal, Health Access America. We will also mail you our fact sheet on reducing administrative hassles. Write Dr. John Clowe, Dept. 3012, American Medical Association, 515 North State Street, Chicago, IL 60610. Or call us today at 800 262-0411.



American Medical Association

Physicians dedicated to the health of America



As appeared recently in The Washington Post.





Combines the antitussive action of hydrocodone with the expectorant action of guaifenesin.

- Hydrocodone helps suppress dry, hacking coughs for up to 6 hours.
- Guaifenesin enables those coughs that do occur to be more productive.
- Long lasting relief in a sugarfree, alcohol-free, dye-free, cherry flavored formula.
- Adult Dose: 1 teaspoon (5mL) every 4-6 hours not to exceed 6 teaspoons in a 24 hour period.





INDICATIONS AND LISAGE: VICODIN THSSTM Expectorant is in th associated with upper and lower respiratory tract conce or gualeness. Patients known to be hypersensitive to other opioids may exhibit cross sensitivity to VICOD ITUSS" Expectorant Hydrocodone is contraindicated in the presence of an intracratal lesion associated with increased intracratal pressure; and with WARINGS. May be habit forming, Hydrocodone is produce drug dependence of the morphine type and therefore has the potential for being abused. Psychic dependence, physical dependence and tolerance may develop upon repeated administrativity to VICOD may exhibit the sane depres of cultural approximation of the use of other activity of the PUCOEN. Besetter and with respective and an intracratal lesion associated with increased intracratal pressure; and with respective and antimistrativity of VICOD may exhibit the use of other activity to VICOD may exhibit the use of other activity of the sane depres of cultural approximation depression by directly activity to expectivate and automatic and with an exame depres of cultural approximation depression by directly activity depression occurs; it may be antagonized by the use of naloxone hydrochoride and other supportive measures when indicated. Heat Injury and Increased Intracratal Pressure: The respiratory depressant properties of nancolic and their capacity to elements. tration of VICODIN THISS™ From rtive measures when indicated. Head Injury and Increased Intracranial Pre n intracranial pressure. Furthermore, narcotics produce adverse reactions v rated in the presence of head injury, other intracranial lesions or a pre-existing increase in intracranial pressure. Furthermore, narc Indicating background in the presence of head why other indicating reacting of a processing of the processing of the provided in the presence of path (CODIN TUSS). The processing of other projects and the provided in th nts with acute abdominal conditi ons. PRECAUTIONS: Be erapy for the pri ase is provided. Usage in Aml which a driving a cur operating matching proposed control wared accordingly. Ong intervaliants: Patients receiving other narcotic analysiss, general anesti may exhibit an additive CNS depression. When such combined therapy is contemplated, the dose of one or both agents should be reduced (see WARNINGS). Laborat patients in therefore may interfere with the interpretation of this test for the diagnosis of carcinol syndrome. Gualemesin administration should be discontinued anesthetics, ohe nd to produce an a ed 24 hours prior to the colle ith VICODIN ent of fertility: Carcinogenicity, mutagenicity and reproduction studies have not been conducted with VICODIN TUSS^W Expectorant. Lisage in Pregnam TUSS^W Expectorant can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. VICODIN TUSS^W Expectorant sh impairment of fertility: Carcinopancity, mutagenicity and reproduction studies have not been conducted with VICODIN TUSS^{IM} Expectorant. Usage in Pregnancy: Pregnancy: Category (c. Anima VICODIN TUSS^{IM} Expectorant can cause tetal harm when administered to a pregnant woman or can affect reproductive capacity. VICODIN TUSS^{IM} Expectorant should be given to a pregnant woman or can affect reproductive capacity. VICODIN TUSS^{IM} Expectorant should be given to a pregnant woman or can affect reproductive capacity. VICODIN TUSS^{IM} Expectorant should be given to a pregnant work of the pregnant of the pregnant work of the pregnant of the pregnant of the pregnant work of the pregnant of the pregnant work of the pregnant of the pregnan Pregnancy Category C. ts from VICODIN TUSSTM Expectorant, a 0 ng directly on brain stem respirat recumbent patients. DRUG ABUSE AND DEPENDENCE: Special care should be exercised in prescr prant is a Schedule III narcotic. Psychic dependence, physical dependence and tolerance may devel unstable patients and for those with a history of drug misuse. Such patients should be closely supervised when long-term therapy is contemplated. VICODIN TUSSTM Expectorant is a Schedule III narcotic. Psychic dependence, pl narcotics; therefore, VICODIN TUSSTM Expectorant should always be prescribed and administered with caution. Physical dependence is the condition in which continued administration of the opioid or following the deministration of the opioid or following sufficient quantities of an opioid of supersest apparent al 48 to 20 hours. Teamine of unitoria sufficient quantities of an opioid of supersest apparent al 48 to 20 hours. Teamine of unitoria sufficient quantities of an opioid of supersest apparent al 48 to 20 hours. Teamine of the opioid or supersest apparent al 48 to 10 hours of the opioid or supersest apparent al 48 to 10 hours of the opioid or supersest apparent al 48 to 10 hours of the opioid or supersest apparent al 48 to 10 hours on the opioid or supersest apparent al 48 to 10 hours on the opioid or supersest apparent al 48 to 10 hours or supersesting the opioid or supersesting theory or classes, cardiac arest, and death may cocur. Treatmenter Primary attenue. Primary attenue of adequate respiratory cardia and hypotension. In severe overfoasing approxi chards theory approximate does of natione hydrochloride is solid to a administered, preferably by the intravenous rout, depression. Oxygen, intravenous fluids, vasopressors and other supportive measures should be administered, preferably b red to prevent the appearance of a withdrawal syn tations of opioid withdrawal are similar to but mi dence Ma eased heart rate and blood pressure, chills, and pains in bones and i **QUALITY TOWARD EXCELLENCE** Knoll Pharmaceutical Company

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Printed In U.S.A

Effective lipid management doesn't have to be tough

DIREC

TION

RAVACHOL

HE

PRAVACHOL® (pravastatin sodium) is indicated as an adjunct to diet for the reduction of elevated total and LDL-cholesterol levels in patients with primary hypercholesterolemia (Types IIa and IIb) when the response to diet alone has not been adequate.

Effective lipid management — improves key lipids

MAN

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

PID

L. 1

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N



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

Excellent safety/tolerability profile for patients

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

Easy dosing regimen and other patient benefits

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

PRAVACING pravastatin sodium 20 mg tablets

Bristol-Myers Squibb Company

AGEMENT

Please see CONTRAINDICATIONS, WARNINGS, PRECAUTIONS, and ADVERSE REACTIONS in the brief summary of prescribing information on the final page of this advertisement. Reference: 1. Jones PH, et al. Once-daily pravastatin in patients with primary hypercholesterolemia: a dose-response study. Clin Cardiol: 1991;14:146-151.

PRAVACHOL* (Pravastatin Sodium Tablets)

CONTRAINDICATIONS Hypersensitivity to any component of this medication. Active liver disease or unexplained, persistent elevations in liver function tests (see WARNINGS). *Pregnancy and lactation.* Atheroscierosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy and lactation. Atheroscierosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy and lactation. Atheroscierosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy and lactation. Atheroscierosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy and lactation. Atheroscierosis is a chronic process and discontinuation of lipid-lowering drugs during synthesis of steriods and cell membranes). Since HMG-CoA reductase inhibitors decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol, they may cause tetal harm when administered to pregnant women. Therefore, HMG-CoA reductase inhibitors are contraindicated during pregnancy and in nursing mothers. **Pravastatin should be administered to women of childbearing age only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the patient becomes pregnant while taking this class of drug, therapy should be discontinued and the patient apprised of the potential hazard to the fetus. WARNINGS**

NCS ADN

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

rare patients. As with other lipid-lowering agents, liver function tests should be performed during therapy with pravastatin. Serum aminortansferases, including ALT (SGPT), should be monitored before treatment begins, every six weeks for the first three months, every eight weeks during the remainder of the first year, and periodically thereafter (e.g., at about six-month intervals). Special attention should be given to patients who develop increased transminase levels. Liver function tests should be repeated to confirm an elevation and subsequently monitored at more frequent intervals. If increases in AST and ALT equal or exceed three times the upper limit of normal and persist, then therapy may warrant consideration of liver biopsy. Active liver disease or unexplained transminase elevations are contraindications to the use of pravastatin (see CONTRAINDICATIONS). Caution should be exercised when pravastatin is administered to patients with a history of liver disease or heavy alcohol ingestion (see CLINICAL PHARMACOLOGY: Pharmacokinetics/Metabolism). Such patients should be closely monitored, started at the lower and of the recommended dosing range, and titrated to the desired therapeutic effect. **Skeletal Muscle: Rhabdomyolysis with renal dysfunction secondary to myoglobinuria has been re-**

patients should be closely monitored, started at the lower end of the recommended dosing range, and titrated to the desired therapoutic effect. Skeletal Muscle: Rhabdomyolysis with renal dysfunction secondary to myoglobinuria has been reported with pravastatin and other drugs in this class. Uncomplicated myalga has also been reported in pravastatin related patients (see ADVERSE FRACTIONS), Myopathy, defined as muscle aching or muscle weakness in conjunction with increases in creatine phosphokinase (CPK) values to greater than 10 times the upper limit of normal was reported to be possibly due to pravastatin in only one patient in cinical trials (<0.15), Myopathy should be considered in any patient with diffuse myalgias, muscle tenderness or weakness, and/or marked elevation of CPK. Patients should be advected to report promptly unexplained muscle pain. Indemess or weakness, particularly if accompanied by malaise or fever. Pravastatin therapy should be discontinued if mark-edly elevated CPK levels occur or myopathy is diagnosed or suspected. Pravastatin therapy should a be discontinued if mark-edly elevated CPK levels occur or myopathy is diagnosed or suspected. Pravastatin therapy should be discontinued if mark-edly elevated CPK levels occur or myopathy is diagnosed or suspected. Pravastatin therapy should as be temporarily withheld in any patient experimenting an acute or serious condition predisposing to the development of renal failure secondary to thabdomyolysis, e.g., sepsis; hypotension; major surgery; trauma; severe metabolic, endocrine, or electrolyte disorders; or uncontrolled epilepsy. Thora, in a distribution of more and inside action with opticopy and the associated with markatian together with nican. One trial of limited size involving combined therapy with pravastatin together with nican. One trial of limited size involving combined therapy with pravastatin more and there with nican. One trial of limited size involving combined therapy with pravastatin more and there with nican. One trial of limit

PRECAUTIONS

PRECAUTIONS General: Pravastalin may elevate creatine phosphokinase and transaminase levels (see ADVERSE REACTIONS). This should be considered in the differential diagnosis of chest pain in a patient on therapy with pravastalin. Homozygous Familial Hypercholesterolemia. Pravastatin has not been evaluated in patients with rare homo-sygous familial Hypercholesterolemia. In his group of patients, it has been reported that HMG-COA reductase inhibitors are less effective because the patients (act has been reported that HMG-COA reductase inhibitors are less effective because the patients (act has been reported that HMG-COA reductase of renal impairment (as determined by creatinine clearance). No effect was observed on the pharmacokinetics of pravastatin or its 3a-hydroxy isomeric metabolite (SO 31) 906). A small increase was seen in mean AUC values and hall-life (1/2) for the inactive enzymatic ring hydroxylation metabolite (SO 31) 945). Given this small sample size, the dosage administered, and the degree of individual variability, patients with renal impairment who are receiving pravastatin should be closely monitored. Information for Patients: Patients should be advised to report promptly unexplained muscle pain, lenderness or weakness, particularly if accompanied by malaise or lever. Drug Interactions: Immunosuppressive Drugs, Gemtifizoral, Nacin (Nicotinic Acid), Erythromycin: See WARN-NSS: Skeletal Muscle.

Skeletal Muscle

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

astalin. Since pravastatin does not appear to induce hepatic drug-metabolizing enzymes, it is not expected that any significant interaction of pravastatin with other drugs (e.g., phenytoin, quindine) metabolized by the cyto-chrome P450 system will occur. *Cholestyramine/Colestipol:* Concomitant administration resulted in an approximately 40 to 50% decrease in the mean ALC of pravastatin. However, when pravastatin was administered 1 hour before or 4 hours after choles-tyramine or 1 hour before colestipol and a standard meal, there was no clinically significant decrease in bio-availability or therapeutic effect. (See DOSAGE AND ADMINSTPATION: Concomitant Therapy.) *Warfarri:* In a study involving 10 healthy male subjects given pravastatin and warfarin concommitting to f days bioavailability oparameters a tistady state for pravastatin (giant) compound) were not altered. Pravastatin did not after the plasma protein-binding of warfarin. *Concomitant loging de extreme protognation of prothormohin time altered 5 days* of concomitant therapy. However, bleeding and extreme protognation of prothormohin time altered thrombin times closely monitored when parvastatin sinitated or the dosage of pravastatin is changed. *Cimetidine:* The AUC₀₋₁₂₇₇ for pravastatin within given with cimetidine was not significantly different from the AUC for pravastatin within given alone. A significant difference was observed between the AUC's for pravastatin when given with cimetidine compared to when administered with antacid. *Digoxi:* In a crossover study in 20 healthy male volunteers given pravastatin single doses of pravastatin and genificant decrease in urinary excretion and protein binding of pravastatin and genificant decrease in urinary excretion and protein binding of pravastatin and genificant increase in AUC, *Comax,* and Tmax for the pravastatin metabolite SQ 31,946 was not altered. There was a significant increase in urinary excretion and protein binding of pravastatin in addition, therays a significant increase in AUC,

Other Drugs: Dunng clinical thais, no noticeable drug interactions were reported when PRAVACHOL was added duretics, antihypertensives, digitalis, converting-enzyme inhibitors, calcium channel blockers, beta-blockers, to: diuretics

or nitroglycern. Endocrine Function: HMG-CoA reductase inhibitors interfere with cholesterol synthesis and lower circulating cholesterol levels and, as such, might theoretically blurit adrenal or gonadal steroid hormone production. Results of clinical trials with gravastatin in males and post-menopausal females were inconsistent with regard to possible effects of the drug on basis isteroid hormone levels. In a study of 21 males, the mean testosterone response to human chorionic gonadotropin was significantly reduced (p<0.004) after 16 weeks of treatment with 40 mg of pravastatin. However, the percentage of patients showing a ±50k res in plasma testosterone ester. The memory chorinic gonadotropin stimulation did not change significantly after therapy in these patients. The effects of human chorionic gonadotropin stimulation did not change significantly after therapy in these patients. The effects of patients. The effects, if any, of pravestatin on the pitulian-gonadal axis in pre-menopausal females are unknown. Patients treated with pravastatin who display clinical evidence of endocrine dysfunction should be evaluated appropriately. Caution should also be evercised if an HMG-CoA reductase inhibitor or other agent used to lower cholesterol levels is administered to patients also receiving other drugs (e.g., ketoconazole, spironalactone, am-edidine) that may diminist the levels or activity of steroid hormones. CNS Toxicity: CNS vascular lesions, characterized by pervascular hemorrhage and edema and mononuclear cell

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infiltration of perivascular spaces, were seen in dogs treated with pravastatin at a dose of 25 mg/kg/day, a dose that produced a plasma drug level about 50 times higher than the mean drug level in humans taking 40 mg/day. Similar CNS vascular lesions have been observed with several other drugs in this class. A chemically similar drug in this class produced optic nerve degeneration (Wallerian degeneration of reti-nogeniculate titeers) in clinically normal dogs in a dose-dependent fashion starting at 60 mg/kg/day, a dose that produced mean plasma drug levels about 30 times higher than the mean drug level in humans taking the highest recommended dose (as measured by total enzyme inhibitory activity). This same drug also produced ves-tibiotocochiear Wallerian-like degeneration and retinal gangion cell chromatolysis in dogs treated for 14 weeks at 180 mg/kg/day, a dose which resulted in a mean plasma drug level similar to that seen with the 60 mg/kg dose. **Carcinogenesis, Mutagenesis, Impairment of Fertility:** In a 2-year study in rats fed pravastatin at doses of 0, 30, or 100 mg/kg body weight, there was an increased incidence of hepatocellular carcinomas in males at the highest dose (p<0.01). Although rats were given up to 125 times the human dose (HD) on a mg/kg body weight basis, their serum drug levels were only 6 to 10 times higher than those measured in humans given 40 mg pravastatin as measured by AUC.

10. 30, or 100 mg/kg body weight, there was an increased incidence of hepatocellular carcinomas in males at the highest dose (p-C01). Although rats were given up to 125 times the human dose (HD) on a mg/kg body weight basis, their serum drug levels were only 6 to 10 times higher than those measured in humans given 40 mg pravastatin as measured by AUC. The oral administration of 10, 30, or 100 mg/kg (producing plasma drug levels approximately 0.5 to 5.0 times human drug levels at 40 mg) of pravastatin its mease were not statistically significant increase in the incidence of malignant lymphomas in treated females when all treatment groups were pooled and compared to controls (p<0.05). The incidence was not dose-related and male mice were not affected. A chemically similar drug in this class was administered to mice for 72 weeks at 25, 100, and 400 mg/kg body weight, which resulted in mean serum drug levels approximately 3.15, and 33 times higher than the mean human serum drug concentration (as total inhibitory activity) after a 40 mg oral dose. Liver carcinomas were significantly increased in high-dose females and mid- and high-dose emales, with a maximum incidence of 90 percent in males of the incidence of lung adenomas in mid- and high-dose males and females. Adenomas of the invertee of lung adenomas in mid- and high-dose males and females. Adenomas of the eye for doets is were significantly increased in high-dose females and the incidence of lung adenomas in mid- and high-dose males and females. Adenomas of the eye farderian gland ta gland of the eye of rodents i were significantly higher in high-dose females. Adenomas othe eye Flarderian gland ta gland of the eye of rodents in were significantly higher in high-dose enales. Weight matter a dominant lethal test in mice or a micronucleus test in nime.
In a study in rats. with daily doses up to 500 mg/kg, pravastatin did not produce any adverse effects on fertility or general reproductive performance. However, in a study with another HMG-CoA reductase i

of these findings is unclear. Pregnancy: Pregnancy Category X: See CONTRAINDICATIONS. Safety in pregnant women has not been established. Pravastatin was not teratogenic in rats at doses up to 1000 mg/kg daily or in rabbits at doses of up to 50 mg/kg daily. These doses resulted in 20x (rabbit) or 240x (rat) the human exposure based on surface area (mg/meter2). However, in studies with another HMG-COA reductase inhibitor, seletali maiformations were observed in rats and mice. PRAVECHDL (pravastatin sodium) should be administered to women of child-bearing potential only when such patients are highly unlikely to conceive and have been informed of the potential hazards. If the woman becomes pregnant while taking PRAVECHDL, it should be discontinued and the patient advised again as to the potential hazards to the fetus. **Nursing Mothers:** A small amount of pravastatin is excreted in human breast milk. Because of the poten-tial for serious adverse reactions in nursing infants, women taking PRAVACHOL, should not nurse (see CONTRAINDICATIONS) **Pediatric Use:** Safety and effectiveness in individuale less than 18 uses and have been been been been been to be the set of the potential set in the set of the potential for seriors and the prevention of the potential for seriors and the potential for seriors adverse reactions in nursing infants.

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

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

	All Ever	nts %	Events Attributed to Study Drug %	
Body System/Event	Pravastatin (N = 900)	Placebo (N=411)	Pravastatin (N = 900)	Placebo (N=411)
Cardiovascular				
Cardiac Chest Pain	4.0	3.4	0.1	0.0
Dermatologic				
Rash	4.0*	1.1	1.3	0.9
Gastrointestinal				
Nausea/Vomiting	7.3	7.1	2.9	3.4
Diarrhea	6.2	5.6	2.0	1.9
Abdominal Pain	5.4	6.9	2.0	3.9
Constipation	4.0	7.1	2.4	5.1
Flatulence	3.3	3.6	2.7	3.4
Heartburn	2.9	1.9	2.0	0.7
General				
Fatigue	3.8	3.4	1.9	1.0
Chest Pain	3.7	1.9	0.3	0.2
Influenza	2.4*	0.7	0.0	0.0
Musculoskeletal				
Localized Pain	10.0	9.0	1.4	1.5
Myalgia	2.7	1.0	0.6	0.0
Nervous System				
Headache	6.2	3.9	1.7'	0.2
Dizziness	3.3	3.2	1.0	0.5
Renal/Genitourinary				
Urinary Abnormality	2.4	2.9	0.7	1.2
Respiratory				
Common Cold	7.0	6.3	0.0	0.0
Rhinitis	4.0	4.1	0.1	0.0
Cough	26	17	0.1	0.0

Court "Statistically significantly different from placebo. The following effects have been reported with drugs in this class: Skeletal: myopathy, thabdomyolysis. Neurological: dysfunction of certain cranial nerves (including alteration of taste, impairment of extra-ocular movement, lacial paresis), temor, vertigo, memory loss, paresthesia, peripheral neuropathy, peripheral nerve palsy. Hypersensitivity Reactions: An apparent hypersensitivity syndrome has been reported rarely which has included one or more of the following features: anaphylaxis, angioedema, lupus erythematous-like syndrome, polymyalgia heimatica, vasculitis, purpuru, thrombocytopenia, leukopenia, hemotylic anemia, positive ANA, ESR increase.

one or more of the following features: anaphylaxis, angioedema, lupus erythematous-like syndrome, polymyalgia theumatica, vasculitis, purpura, thrombocytopenia, leukopenia, hemolytic anemia, positive ANA, ESR increase, arthritis, arthratiga, urticana, asthema, photosensitivity, lever, chills, fushing, mataise, dyspinea, toxic epidermal necrolysis, erythema multiforme, including Stevens-Johnson syndrome. Gastrointestimal: pancetaitis, hepatitis, including chronic active hepatitis, cholestatic jaundice, fatty change in liver, and, rarely, cirrhosis, fulminant hepatic necrosis, and hepatoma; anorexia, vomiting. *Reproductive*: gynecomastia, loss of libido, erectile dysfunction. *Eye*: progression of cataracts (lens opacities), ophthatmoplegia. **Laboratory Test Abnormalities:** Increases in serum transaminase (ALT, AST) values and CPK have been observed (see WAGNINGS).

Laboratory Test Abnormalities: Increases in serum transaminase (ALT, AST) values and CPK have been observed (see WARNINGS). Transient, asymptomatic econochila has been reported. Econophil counts usually returned to normal despite contin-ued therapy. Anemia, thrombocytopena, and leukopena have been reported with other HMG-CoA reductase inhibitor. Concomitant Therapy: Pravastatin has been administered concurrently with cholestryamine, colestipol, nico-tinic acid, probucol and gemfibrozil. Preliminary data suggest that the addition of either probucol or gemfibrozil to therapy with lovastatin or pravastatin is not associated with greater reduction in LDL-cholesterol than that achieved with lovastatin or pravastatin alone. No adverse reactions unique to the combination or in addition to those previously reported for each drug alone have been reported. Myopathy and rhabdormydysis (with or without acute rena failure) have been reported when another HMG-CoA reductase inhibitor was used in combination with immunosuppressive drugs, gemfibrozil, erythromycin, or lipid-lowering doese of nicotinic acid. Concomitant ther any with HMG-CoA reductase inhibitors and these agents is generally not recommended. [See WARNINGS: Skeletal Muscle and PRECAUTIONS: Drug Interactions.] OVERDOSAGE

OVERDOSAGE

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

Now, for allergic rhinitis...

ONCE DAILY FOR RELIEF

Once daily for convenience

Once daily for comfort "?

Once daily for unsurpassed safety^{3:5}



Turns patient complaints...Into patient compliance

Please see brief summary of prescribing information on adjacent page.



Turns patient complaints...Into patient compliance



For Intranasal Use Only Shake Well Before Using

BRIEF SUMMARY

CONTRAINDICATIONS: Hypersensitivity to any of the ingredients of this preparation

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

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

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

PRECAUTIONS

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

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

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

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

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

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

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

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

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

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

Developmental toxicity, which included increases in fetal resorptions and stillbirths and decreases in pup body weight and survival, also occurred at the maternally toxic doses (25 - 150 mcg/kg/day or 20 - 110 mcg/m²/day, as calculated on a surface area basis). Reproductive performance of temale rats and effects on fetuses and offspring were comparable between groups that received placeba and non-toxic or marginally toxic doses (05 and 1.0 mcg/kg/day or 38 mcg/m²/day and 7.0 mcg/m²/day). **Pregnancy:** Pregnancy Category C. Like other conticoids, triamcinolone acetonide has been shown to be teratogenic in rats and rabbits. Teratogenic effects, which occurred in both species at 0.02, 0.04 and 0.08 mg/kg/day (approximately 135, 270 and 540 mcg/m²/day in the rat and 320, 640 and 1280 mcg/m²/day in the rabbit, as calculated on a surface area basis), included a low incidence of cleft palate and/or internal hydrocephaly and axial skeletal defects. Fratogenic effects, including CNS and cranial malformations, have also been observed in non-human primates at 0.5 mg/kg/day used in these toxicology studies are approximately 128, 255, 51, and 318.7 times the minimum recommended dose of 140 mcg of Nasacort per day and 32, 64 an a patient body weight of 70 kg. Administration of aerosol by inhalation to pregnant rats and rabbits produced embryotoxic and feltoxic effects which were comparable to those produced by administration of aerosol by inhalation to pregnant as and rabbits produced entryotoxic and feltoxic effects which were comparable to those produced by administration by other roles. There are no adequate and weil-controlled studies in pregnant women. Triamcinolone acetonide should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

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

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

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

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

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

uncontrolled studies received treatment from 1 to 820 days (average 332 days). The most prevalent adverse experience was headache, being reported by approximately 18% of the patients who received Nasacort. Nasal irritation was reported by 2.8% of the patients receiving Nasacort. Other nasopharyngeal side effects were reported by tewer than 5% of the patients who received Nasacort and included: dry mucous membranes, naso-sinus congestion, throat discornfort, sneezing, and epistaxis. The complaints do not usually interfere with treatment and in the controlled and uncontrolled studies approximately 1% of patients have discontinued because of these nasal adverse effects.

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

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

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



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

NOW FOR BED-WETTING... Waking up dry,



morning after morning

DDAVP[®] Nasal Spray... works hand in hand with behavior modification to help control bed-wetting, a disorder that affects 5 to 7 million children nationwide.¹

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 months²
- Approximately 20 years of safe use in children with diabetes insipidus³

Works effectively, rapidly

- Success rates as high as 82%⁴
- Significant response in as few as 1-3 days⁵

Works to improve children's self-concept

- Children frequently experience feelings of happiness and achievement at becoming dry⁶
- Significantly improves self-concept, restores quality of life⁷

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.



Please see Brief Summary of prescribing information on following page.

DDAVP®Nasal Spray (desmopressin acetate) 5mL

Dry Nights For Good Mornings

Brief Summery CONTRAINDICATION: Known hypersensitivity to DDAVP Nasal Spray

Contribution of the set of the se

Caronogeness, Mutageness, Impairment of Fertility: Teratology studies in rats have shown no abnormalities. No further information is available. Pergnancy-Category B: Reproduction studies performed in rats and rabbits with doses up to 12.5 times the human intranasal dose (i.e. about 12.5 times the total abult human dose given systemically) have revealed no evidence of harm to the fetus exported in totals about 12.5 times the total abult human dose given systemically) have revealed no evidence of harm to the fetus reported in totals there are eveniar publications of management of diables insploads un torgenant women with no harm to the fetus reported in towever, no controlled studies in pregnant women have been carried out. Published reports stress that, as opposed to pregnations containing the towerph possible therapeuic advantages against possible dangers in each individual case. Nummy Mohrees There have been no controlled daubies in nursing mothers. A single study in a post-partum woman demonstrated a marked change in plearna, but title if any change in assayable DDAP Neasi Soray in breast mitk following an intranasal dose of 10 mog. Postation Lise: There have been no controlled studies in nursing mothers. A single study in a post-partum woman demonstrated a marked change in plearna, but title if any change in assayable DDAP Neasi Soray in primary incolural enuresis. Short-term (14.4 weeks) DDAP Neasi Soray administration has been shown to be safe and modestly effective in children aged 6 years or older with severe child-tood nocturial enuresis. Adequately controlled studies with DDAP Neasi Soray in primary incolural enuresis than obtained and the guine careful fuel risk resisting to 10 the danger of an extreme decrease in plearna callers, must be individually adjusted to the patient with attention in the very young to the danger of an extreme decrease in plearna callers in public. Some should shart and bother miting adjusted to the safet with attention in the very young to the danger of an ext

pivotal study data for nocturnal enuresis.	PLACEBO (N-59)	DDAVP 20 mcg (N-60)	DDAVP 40 mcg (N=61)
ADVERSE REACTION	<u>%</u>	<u>%</u>	<u>%</u>
Abdominal Pain Acthenia	0	2	2
Chills	Ő	0	25
Throat Pain NERVOUS SYSTEM	ž	õ	Ő
Depression	20	0	03
RESPIRATORY SYSTEM	2	3	0
Nostril Pain Respiratory Infection	02	20	00
Rhinitis CARDIOVASCULAR SYSTEM	2	8	3
Vasodilation DIGESTIVE SYSTEM	2	0	0
Gastrointestinal Disorder Nausea	0	20	02
SKIN & APPENDAGES Leg Rash Rash	22	0	00
SPECIAL SENSES Conjunctivitis	9	2	0
Lachrymation Disorder	0	ő	2

OVERDOAGE: 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 DOMP Nasal Spray. An oral LD_{sig} has not been established. An intravenous dose of 2 mg/kg in mice demonstrated no effect. **WOW SUPPLED:** A 5-mL bottle with spray pump delivering 50 doses of 10 mog (NDC 0075-2450-02). Also available as 2.5 mL per vial, packaged with two finial tube applicators per cartion (NDC 0075-2450-01). Keep refigerated at 2°-8°C (36°-46°F). When traveling, product with marinar stability for up 3 weeks when stored at room temperature, 22°C (72°F). CAUTRON: Federal (USA) law prohibits dispensing without prescription. Pease see full prescribing information in product circular.

Prese de la preschag nontación producticos:
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):723-726. 3. Harris AS: Clinical experience with desmopressin: Experience and the management of nocturnal enuresis. 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. S. Aladjem M, Wohl R, Boichis H, et al: Desmopressin in nocturnal enuresis. Arcb Dis Child 1982;57:137-140. 6. Baker BL: Symptom treatment and symptom substitution in enuresis. J Adnorm Psych 1969;74:42-40. 7. Molfat MEK. Nocturnal enuresis. Psychologic implications of treatment and nontreatment. J Pediatr 1989;114(Part 2):697-704.

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Effective with a low incidence of peptic ulcers*

Cumulative rate of ulcers by duration of treatment in U.S. clinical trials¹ with *Relafen* 1000 to 2000 mg/day

Cumulative incidence of ulcers	Treatment interval	1000 mg	Number o patients 1500 mg	f 2000 mg
0.3%	3 to 6 months	1064	712	84
0.5%*	up to 1 year	833	614	69
0.8%§	up to 2 years	540	513	46
Patient	s may have been treated at more than one †95% confidence intervals (0.0%, 0.6° ‡95% confidence intervals (0.1%, 0.9°	dosage level. %). %).		

§95% confidence intervals (0.3%, 1.3%).

As effective as NSAID standards for OA and RA

Convenient once-a-day 1000 mg dosing; may be adjusted to 2000 mg



RELAFEN[®]

Effective with a low incidence of peptic ulcers*

* Other G.I. symptoms comparable to other NSAIDs. Please see brief summary of prescribing information on adjacent page.



RELAFEN brand of nabumetone

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

CLINICAL PHARMACOLOGY: Relatent is a nonsteroidal anti-inflammatory drug (NSAID) that exhibits anti-inflamma-tory, 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

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

WARNINGS: Remain alert for ulceration and bleeding in patients treated chronically, even in the absence of previous G1. tract symptoms.

Of Back Symposise. In controlled clinical trials involving 1,577 patients treated with *Relaten* 11,140 followed for one year and 927 for two years), the cumulative incidence of peptic ulcers was 0.3% (95% Cl; 0.%, 0.6%) at three to six months, 0.5% (95% Cl; 0.1%, 0.9%) at one year and 0.8% (95% Cl; 0.3%, 1.3%) at two years, inform patients of the signs and symptoms of serious GL toxicity and what steps to take if they occur. In patients with active peptic ulcer, weigh the benefits of *Relaten* therapy against possible hazards, institute an appropriate ulcer treatment regimen and monitor the patients. Relaten therapy ag progress carefully

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

PRECAUTIONS: Because nabumetone undergoes extensive hepatic metabolism: no adjustment of *Relaten* dosage is generally necessary in patients with renal insufficiency. However, as with all NSAIDs, monitor patients with impaired renal function more closely than patients with normal renal function.

Evaluate patients with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, for evidence of the development of a more severe hepatic reaction while on *Relaten* therapy. If abnormal liver tests persist or worsen, if climical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophila, rash, etc.), discontinue *Relaten*. Use *Relaten* coulously in patients with severe manifestations of hepatic impairme

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

Based on U.V. light photosensitivity testing, Relatenmay be associated with more reactions to sun exposure than hight 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 Relaten with warfarin since interactions have been seen with other NSAIDs

In two-year studies conducted in mice and rats, natumetone had no statistically significant tumorigenic effect. Natumetone did not show mutagenic potential in the Ames test and mouse micronucleus test in vivo However, natumetone- and 6MMA treated lymphocytes in culture showed chromosomal aberrations at 80 mcg/mL and higher concentrations (equal to the average human exposure to *Relaten* 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.

Preprancy Category C: Naburents of index a case 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 dosse (gual to the average human exposure to SMNA at the maximum recommended human dose). There are nadequate, well-controlled studies in pregnant women. Use the drug during pregnancy only it clearly needed. Because of the known effect of porstagending-synthesis: imibiting drugs on the human fattal cardiovascular system (closure of ductus artariosus), use of *Relaten* during the third trimester of pregnancy is not recommended.

The effects of *Belafenon* 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, BMNA is excreted in the milk of lactating rats. Because of the possible adverse effects of prostaglandin-synthesis-inhibiting drugs on neonates. *Relaten* is not recommended for use in nursing mothers.

Safety and efficacy in children have not been established

Of the 1.677 patients in U.S. clinical studies who were treated with *Relaten*. 411 patients (24%) were 65 years of age or older; 22 patients (1%) 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 *Relaten* patients, of whom 4.577 patients (42%) were 65 years of age or older.

ADVERSE REACTIONS: Incidence >1%,--Probably Causally Related—Diarhea (14%), dyspesia (13%), abdominal pain (12%), constipation*, flatulence*, nausea*, positive stool gualac*, dry mouth, gastritis, stomatitis, yomiting, diariness*, headache*, fatigue, increased sweating, insomnia, nervousness, somnolence, pruritus*, rash* timitus*, deama*. *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, duodenai ulcer, dysphagia, gastro-ulcer, gastroentenits, gastrointestinal bleeding, increased appetite, liver function anormalities, melena, astenia, agriation, anxiety, contusion, depression, malaise, paresthesia, termori, vertigo, bullious engulosinos, photosensitivity, urticaria, pseudoporphytia cutaries tarda, toxic endermal necrolysis, vasculitis, veight gain, dyspnea, eosinophilo pneumona, hyperanstristivity preumonitis, ablueniumuria, azotemai, hyperuncemai, interstitial nephritis, vaginal bleed-ing abnormal vision, anaphylactoid reaction, anaphylaxis, angianeurotic edema

Incidence <1%—Causal Relationship Unknown¹—Bilirubinuria, duodenitis, eructation, gallstones, gingivitis, glossitis, pancreatitis, recital bleeding, nightmares, anen, alogecia, enythema multiforme, Stevens-Johnson Syndrome, angina, arthythmia, hypertension, myocardial infarction, palpitations, syncope, thrombophlebitis, asthma, cough, dysura, hematuria, impotence, renal stones, taste disorder, fever, chills, anemia, leukopenia, granulozytopenia, hyperplycemia, hypokalemia, weight loss. TAdverse reactions reported only in worldwide postmarketing experience or in the literature, not seen in clinical trials, are considered rarer and are italicized.

OVERDOSAGE: It 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 overtose occurred in a 17-year-old female patient who had a history of abdominal pain and was hospitalized for increased abdominal pain following ingestion of 30 *Relaten* tables (15 grams tatal). 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 H₄-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 load. 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 lovest effective dose for chronic treatment.

HOW SUPPLED: 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 lintended for institutional use only).

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

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 BRS-BUIS

Philadelphia, PA 19101 IDSmithKline Beecham, 1993

Reference:

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

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WHY CONSIDER TENORMIN BEFORE ALL OTHER BETA BLOCKERS?





Good clinical judgment suggests that patients who are dependent on sympathetic stimulation for adequate cardiac output and BP are not good candidates for beta blockade. In addition to patients excluded from the ISIS-1 study, those with borderline BP (ie, systolic < 120, especially if over age 60) are less likely to benefit. **References: 1.** ISIS-1 (First International Study of Infarct Survival) Collaborative Group. Randomised trial of intravenous atenolol among 16 027 cases of suspected acute myocardial infarction: ISIS-1. *Lancet.* 1986;2:57-66. **2.** Giamann DB, Lange RA, Hillis LD. Beneficial effect of long-term beta blockade after acute myocardial infarction in patients without anterograde flow in the infarct artery. *Am J Cardiol.* 1991;68:150-154.

See adjacent page for brief summary of prescribing information.

EX. INVECTION/TABLED.

(CIPC) TOLENCE TRANSMIT (CIPC) COC) 25, 50, 100 mg tablets (FOP PULL PRESCRIBURG INFORMATION, SEE PREACHE ENSERT.) INDICATIONS AND USAGE: Hypertension: TENORMIN is indicated in the management of hypertension. II may be used alone or concomitantly with other antihypertensive agents, particularly with a thizade-type durefic. Anging Pectors Due to Concern Albureckerosis: TENORMIN is indicated for the long-term management of patients with angina pectors. Anging Pectors Due to Concern Albureckerosis: TENORMIN is indicated for the long-term management of patients with definite or suspected acute myocardial infarction to reduce cardiovascular mortality. Treatment can be initiated as soon as the patient's clinical condition allows. (See DOSAGE AND ADMINISTRATION. CONTRAINDICATIONS, and WARNINGS.) In general, there is no basis for treating patients like teasens to avoid beta blockade. As noted above, some subgroups (e.g. elderly patients with systolic blood pressure less than 100 mm Hg systolic, heart rate less than 30 bpm) or have other reasons to avoid beta blockade. As noted above, some subgroups (e.g. elderly patients with systolic blood pressure less than 100 mm Hg systolic, blood pressure less than 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm Hg systolic blood pressure less than 20 bpm) or 100 mm

Seemed less tikely to benefit. CONTRAINDICATIONS: TENORMIN is contraindicated in sinus bradycardia, heart block greater than first degree, cardiogenic shock, and overt cardia caliure. Gee WARNINGS.) WARNINGS: Cardiac Failure: Sympathetic stimulation is necessary in supporting circulatory function in congestive heart failure, and blockade carries the potential fazar of further depressing mycocardial contractility and precipitating more severe failure. In patients who blockade carries the potential fazar of further depressing mycocardial contractility and precipitating more severe failure. In patients who have congestive heart failure controlled by digitalis and/or diuretics, TENORMIN should be administered cubiously. Both digitalis and alenold slow AV conduction. In patients with acute myocardial infarction, cardiac failure which is not promptly and effectively controlled by 80 mg of intravenous furosemide or equivalent therapy is a contraindication to beta-blocker treatment. In Patients Without a History of Cardiac Failure. Continued depression of the myocardium with beta-blocking agents over a period of time cardia caliuret, and the response observed closely. If cardiac failure continues despite adequate digitalization and diuress. TENORMIN should be untyraum. (See DOSAGE ANO ADMINISTRATION.) Constitution of Therapy with TENORMIN Patients with coronary artery disease, who are being treated with TENORMIN should be advised

Casadion of Intrapy with TENORMINE Yatentis with coronary artery disease, who are being treated with TENORMIN, should be advised against abrupt discontinuction of therapy. Severe exacerbation of angina and the core::rence of nyocardial inflarction and ventricular arrhythmias have been reported in angina patients following the abrupt discontinue:¹¹¹²: of therapy with beta blockers. The last two complications may occur with or without preceding exacerbation of the angina pectoris. As with other beta blockers, when discontinuation of TENORMIN is planned, the patients should be carefully observed and advised to limit physical activity to a minimum. If the angina worsens or acute coronary insufficiency develops, it is recommended that TENORMIN be prudent not to discontinue, at least temporarily abrupty even in patients treated only for hypertension. (See DOSAGE AND ADMINISTRATION.)

Labropty even in patients treated only for hyperfension. (See DUSAGE AND ADMINISTRATION.) Bronchospastic Diseases: PATIENTS WITH BRONCHOSPASTIC DISEASE SHOULD, IN GENERAL, NOT RECEIVE BETA BLOCKERS. Boccuse of Its relative bats, ascientivity, however, TENORMIM may be used with caution in patients with bronchospastic disease whe do not respond to, or cannot tolerate, other antihyperfensive treatment. Since beta, selectivity is not absolute, the lowest possible dense of TENORMIM should be used with theorage initiated at 50 mg and a bats, attimulating agent (fromchodilater) should be made available. If dosage must be increased, dividing the does should be considered in order to achieve lower peak blood lavels. Amethesia and Major Surgery: It is not advisable to withdraw beta-adrenorceceptor blocking drugs prior to surgery in the majority of patients. However, care should be taken when using anesthetic agents such as those which may depress the myocardium. Vagal dominance, if docume, may be corrected with atropine (1-2 mg IV). Additionally, caution should be used with Teropine (1-2 mg IV). TENORMIM, like other beta blockers, is a competitive inhibitor of beta-receptor agonists and its effects on the heart can be reversed by diministration discub agents; doubarmine or isoproterend with caution in diabetic patients (1 a beta-blocking angus doubarties en soproterents) with other manifestions souch as forzines and sweating Diabetes and Hypoglycemia: TENORMIN should be used with caution in diabetic patients (1 a beta-blocking angus doubarties en avoites) Diabetes and Hypoglycemia: TENORMIN should be used with caution in diabetic patients (1 a beta-blocking angus doubarties) en avoite beta-blocking angus doubarties en avoit beta-blocking angus doubarties en avoit beta-blocking angus doubarties en avoit beth

availe. Anest *ient

Dispets and repurpresente. Terrormine strole be also min caucio in destrice patiente la doca discussiona de servicio de blockers may mask tachycarda do occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected. At recommended doses TENORMIN does not potentiate insulin-induced hypoglycemia and, unlike nonselective beta

administration of such agents: e.g. dobutamine or isoproterend with caution (see Section on OVERDOSAGE). Bibets and Hypagiyemia: ENDAMIN should be used with cautoin in idubitic particular is a latitude chicking agent is required. Beta blockers may mask tachycardia occurring with hypopycemia, but other manifestations such as discless and swealing may not be blockers, does not delay recovery of blood glucose to normal levels. ThyroBitication: Beta-admenny blockade may may accertain chical signs (eg. tachycardia) of hyperthyroidism. Patients suspected of having hypod disease should be monitored closely when administering (ENDAMINI V. Injection. Adrupt withdraval on the blockade may may tachy the should be monitored closely when administering (ENDAMINI V. Injection. Adrupt withdraval on the blockade may may tachy the should be monitored closely when administering (ENDAMINI V. Injection. Adrupt withdraval on the blockade may may tachy the should be monitored closely when administering (ENDAMINI V. Injection. Adrupt withdraval on the blockade may may tachy the should be approved of the potential hazary when administered to a pregnant woman. TENDAMINI threases the patients and appears in cord block. Os statis have been patient woman in the management of mild to moderate hypertension has been associated with intraulerine growth retardation. If this drug is used during pregnant, or the patient bacomes pregnant while taking this drugt. TENDAMIN to nomenmedia human anthypertension closes. Although hama anthypertensio de. Intilal and strang the strange and the should be apprised of the potential hazary was not estated in rabbits at doces at low 25 million befores. The Beat Strange and the should be apprised of the blocker multic evolution bereations including pulse and blood pressure. THORMIN to appression and the advised at blocker multic evolution bereations including pulse and blood pressure. THORMIN to appression and the blocker multic evolution to estate and the should and advise advised at hypotensio

	Volunteered (US Studies)		Total - Volunteered and Elicited (Foreign + US Studies)	
	Atenoiol (n = 164)	Placebo (n = 206)	Atenolal (n = 399) %	Placebo (n = 407)
CARDIOVASCULAR				
Bradycardia	3	0	3	0
Cold Extremities	ō	0.5	12	5
Postural Hypotension	2	1	4	5
Leo Pain	ō	0.5	3	ĩ
CENTRAL NERVOUS SYSTEM/				
NEUROMUSCULAR				
Dizziness	4	1	13	6
Vertigo	2	0.5	2	ñ 2
Light-headedness	ī	Ô	3	07
Tiredness	<u>0</u> 6	0.5	26	13
Fatique	3	1	ã	5
Lethargy	i	Ó	3	0.7
Drowsiness	0.6	ō	2	0.5
Depression	0.6	0.5	12	9
Dreamino	0	0	3	i
GASTROINTESTINAL	•	•	•	•
Diarrhea	2	0	3	2
Nausea	4	1	3	ī
RESPIRATORY (see WARNINGS)				
Wheeziness	0	٥	3	3
Dysonea	0.6	i	6	4
Anna Menoralist Informations to a		4		

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

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In a study of 477 patients, eported during either intravenou	the foll us and/o	owing adve r oral atenol	erse evi of admi	ents were nistration:	In the subsequent Interna including over 16,000 patie receive TENORMIN treatme	itional Study of Infa ats of whom 8,037 at the dosage of i	arct Survival (ISIS-1) were randomized to
	Conv Th Plus (n	entional erapy Atenolol =244)	Conv Th (n	rentional lerapy None =233)	sequent of TENORMIN was either discontinued or redu following reasons: Reasons for Reduced Dosage		ed or reduced for the ge
radycardia ypotension	43 60	(18%) (25%)	24 34	(10%) (15%)		Reduced Dose (< 5mg)*	Oral Partial Dose
ronchospasm eart Failure eart Block	3 46 11	(1.2%) (19%) (4.5%)	2 56 10	(0.9%) (24%) (4.3%)	Hypotension/Bradycardia Cardiogenic Shock	105 (1.3%) 4 (.04%)	1168 (14.5%) 35 (.44%)
BB + Major Axis Deviation	16	(6.6%)	28	(12%)	Reinfarction Cardiac Arrest Heart Block (> first degree)	0 (0%) 5 (.06%) 5 (.06%)	5 (.06%) 28 (.34%) 143 (1.7%)
upraventricular Fachycardia trial Fibrillation trial Flutter	28 12 4	(11.5%) (5%) (1.6%)	45 29 7	(19%) (11%) (3%)	Cardiac Failure Arrhythmias	1 (.01%) 3 (.04%)	233 (2.9%) 22 (.27%)
entricular Tachycardia ardiac Reinfarction	39 0	(16%) (0%)	52 6	(22%) (2.6%)	Bronchospasm *Full dosage was 10 mg and	1 (.01%) some patients rece	50 (.62%) eived less than 10 mg
otal Cardiac Arrests onfatal Cardiac Arrests eaths	4 4 7	(1.6%) (1.6%) (2.9%)	16 12 16	(6.9%) (5.1%) (6.9%)	but more than 5 mg. During postmarketing ext	perience with TENC	RMIN, the following
ardiogenic Shock evelopment of Ventricular	í	(0.4%)	4	(1.7%)	have been reported in temp elevated liver enzymes an	oral relationship to d/or bilirubin, he	the use of the drug: adache, impotence,
Septal Defect evelopment of Mitral	0	(0%)	2	(0.9%)	Peyronie's disease, psoriasi purpura, reversible alopecia like other beta blockers, bas	form rash or exace a, and thrombocyt been associated w	erbation of psoriasis, openia. TENORMIN, with the development
negurgitation enal Failure ulmonan: Emboli	1	(0.%) (0.4%) (1.2%)	0	(0.9%) (0%) (0%)	of antinuclear antibodies (A	NA) and lupus sym	drome.

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

POTENTIAL ADVERSE EFFECTS: In addition, a variety of adverse effects have been reported with other beta-adrenergic blocking agents, and may be considered potential adverse effects of TENORMIN. Hematologic: Agranulocytosis. Allergic: Fever, combined with aching and sore throat, laryngospasm, and respiratory distress. Central Herouss System: Neurosis bayes. Neurosis of the every solution of the every with solution of quiescence of the reaction. Over Boysten Cave Adva Advance are solution of the event of the event of the every of the event of the every with solution of quiescence of the reaction. Over Boysten Solution of quiescence of the reaction. Devero solution of quiescence of the reaction. Devero solution of quiescence of the reaction. The predominant symptoms reported following the event fails when adver of respiratory drive, wheezing, sinus pause, and bradycardia. Additionally, common effects associated with overdosage of any bata-adrenergic blocking agent, advanced is eventioned from the general circulation by the adverse of the reaction. The predominant symptoms reported following the event failer by hybresinsion. Prochospasm, addro hypoglycenia. The predominant symptoms reported following the event failer bybresinsion. Prochospasm, addro hypoglycenia. The predom

transvenous cardiac pacemaker may be indicated. HEART BLOCK (SECOND OR THIRD DEGREE): Isoproterenol or transvenous cardiac pacemaker

In zeni accun (accun) an inno biconter, i sopiotecino in marsenous actuate pacemani. A CAPILAE FALLURE: Diplatize the gateria and administer a diurete, claugon has been reported to be useful. HYPOTENSION: Vasopressors such as dopamine or norepinephrne (levarterend). Monitor blood pressure continuously BROWCHOSPASM: A beta, stimulant such as isopreterend or terbutaline and/or aminophylline. HYPOGLYCEMIA: Intravenous glucose.

Based on the seventy of symptoms, management may require intensive support care and facilities for applying cardiac and respiratory support. DOSAGE AND ADMINISTRATION: Hypertension: The initial dose of TENORMIN is 50 mg given as one tablet a day ether alone or added to diuretic therapy. The full effect of this dose will susply be seen within one to two weeks. If an optimal response is not actived of, the dosage should be increased to TENORMIN 100 mg given as one tablet a day. Increasing the dosage beyond 100 mg a day is unlikely to produce any further henefit

TENORMIN may be used alone or concomitantly with other antihypertensive agents including thiazide-type diuretics, hydralazine,

TENORMIN may be used addre of concentrating with one animyperiorative gene including interfer type includes in argoin, and algoin-methyloga. Angina Pectoris: The initial dose of TENORMIN is 50 mg given as one tablet a day. If an optimal response is not achieved within one eeek, the dosage should be increased to TENORMIN 100 mg given as one tablet a day. Some patients may require a dosage of 200 mg once a day for optimal effect

Angine records the initial lose of LEWORMIN is on ing given as one tablet a day. If an optimal response is not achieved within the week, the dosage should be increased to FEVORMIN 100 mg given as one tablet a day. If an optimal response is not achieved within the a day for optimal effect. Twenty-four hour control with once daily dosing is achieved by giving doses larger than necessary to achieve an immediate maximum effect. The maximum early effect on exercise tolerance occurs with doses of 50 to 100 mg, but at these doses the effect at 24 hours is attenuated, averaging about 50% to 75% of that observed with once a day oral doses of 200 mg. A cute Myocardial infraction: In patients with definite or suspected acute myocardial infraction, treatment with TENORMIN 1.V. Injection should be initiated as soon as possible after the patient's arrival inthe hospital and after eligibility is established. Such treatment should begin with the intravenous administration of 5 mg TENORMIN vors 5 muots followed by another 5 mg intravenous niccion 10 minutes slater. TENORMIN 1.V. Injection should be administered under carefully controlled conditions including monitoring of blod pressure, heart rate, and electroacriggram. Dilutions of TENORMIN 1.V. Injection Dextrose Injection USP, Sodium Chloride injection USP, sodium c

Creatinine Clearance (mL/min/1.73m ²)	Atenolol Elimination Half-Life (h)	Maximum Dosage
15-35	16-27	50 mg daily
<15	>27	25 mg daily

Tables of 50 mg atenolo, NDC 310-0102 (round, flat, uncoated white tablets with Cl debossed on one side and 105 debossed on the other side, bisected are supplied in bottles of 100 tablets. Tablets of 100 tablets, and unit does packages of 100 tablets. Tablets of 100 tablets and 100 tablets and 100 tablets and 100 tablets are supplied in bottles of 100 tablets. Tablets of 100 tablets are supplied in bottles of 100 tablets. Tablets of 100 tablets are supplied in bottles of 100 tablets. Tablets of 100 tablets are supplied in bottles of 100 tablets and 1000 tablets, and unit does packages of 100 tablets. Tablets of 100 tablets of 100 tablets are supplied in bottles of 100 tablets are supplied in tablets are distributed by ICI Parma.

other side) are supplied in bottles of 100 tablets and unit dose packages of 100 tablets. These tablets are distributed by ICI Pharma. Store at controlled room temperature, 15°-30 °C (59°-86 °F). Dispense in well-closed, light resistant containers.

ERVORMIN 1.V. Hyperbox ENORMIN 1.V. Injection, NDC 0310-0108, is supplied as 5 mg atenolol in 10 mL ampules of isotonic citrate-buffered aqueous solution. Protect from light. Keep ampules in outer packaging unlit time of use. Store at room temperature. REV Y 03/92



@ 1993 7ENECA Inc

ICI-2870B

TENORMIN I.V. Injection

ESA-1511

Once-A-Day



30mg, 60mg & 90mg

Real Value for Real People with Hypertension

40LS

Candidate Profile

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



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
- Significant reduction in both diastolic and systolic blood pressure'



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

Real People, Real Needs, Real Value

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

Placebo (n=16)
 30 mg (n=14)
 60 mg (n=15)

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"²
- \bullet Adalat® CC is priced (AWP) 25% below the Average Wholesale Price of Procardia $XL^{\odot*^{+3}}$
- Adalat[®] CC brings Cost Control to once-daily nifedipine therapy for hypertension; it is not indicated for angina
- Adalat[®] CC should be administered on an empty stomach
- Careful titration may be necessary when switching between Procardia XL[®] and Adalat[®] CC

Projected annual savingst per hypertensive patient

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

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

†Calculations based on suggested Average Wholesale Price (AWP).³

"Save up to \$192 a year?

Once-A-Day



30mg, 60mg & 90mg

Real People, Real Needs, Real Value

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



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



nifedipine therapy for hypertension

Lower price (AWP) than Procardia XL[®]

30 mg, 60 mg and 90 mg-potential 25% savings⁺³

5/93

Convenient, well-tolerated therapy

Start with*

Titrate, if necessary*

R R Adalat CC Adalat CC 30mg once daily 60mg once daily

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

tence, urinary frequency

BRIEF SUMMARY CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION For Oral Ilsa

The benefits of long-acting

P710074485

INDICATION AND USAGE: ADALAT CC is indicated for the treatment of hypertenn. It may be used alone or in combination with other antihypertensive agents CONTRAINDICATIONS: Known hypersensitivity to nifedipine.

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 soually courred during initial titrotion or at the time of subsequent upward dosage adjustment, and may be more likely in patients using oncomitant 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 lyposs surgery using high dose tentanyl appears to be due to the combination of nifedipine and a beta-blocker, but the possibility that it may occur with nifedipine along-getiss cannot be ruled out. In midelipine-treat-ed patients where surgery using high dose fentanyl ansthesia is contemplated, the physican should be ware of these potential problems and, if the patient's condition parts.

physician should be aware of these potential problems and, if the patient's condition per-mits, sufficient time (at least 36 hours) should be allowed for nifedipine to be washed out of the body prior to surgery. Increased Angine and/or Myscardial Infarction: Karely, patients, particularly those who have severe obstructive accounty artery disease, have developed well docu-mented increased frequency, duration and/or severity of angina or acute myscardial infarction: up astring nifedipine or at the time of dosage increase. The mechanism of this effect is not established. Bete-Blocker Withdrawel: When discontinuing a bete-blocker it is impactant to

Beta-Blocker Withdrawal: When discontinuing a beta-blocker it is important to Bere-biocker withardawal: when asconnuing a bete-biocker it is important to toper its does, if possible, rother than stopping abruptly before beginning middpine. Patients recently withdrawn from beta blockers may develop a withdrawal syndrome with increased angina, probably related to increased sensitivity to catecholomines. Initiation of nitedpine treatment will not prevent this occurrence and on occesion has been reported to increase it.

been reported to increase it. Congestive Heart Failure: Rarely, patients (usually while receiving a beta-blocker) have developed heart failure: Rarely, patients indications. Patients with tight aortic steno-sis 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

PRECAUTIONS: General - Hypotension: Because miledipine decreases peripheral vocular resistance, careful monitoring of blood pressure during the initial administra-tion and fitration of ADALAT (C is suggested. Close observation is especially recommend-ed for patients already taking medications that are known to lower blood pressure (See WARNINGS).

ed for patients already taking medications that are known to lower blood pressure (See WARNINGS). Peripheral Edema: Mild to moderate peripheral edema occurs in a dos-dependent manner with ADALAT (CC. The placebo subtracted rate is aparaximately 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 vasadilation of dependent arterioles and small blood vessels and not due to left ventricular dystanction or generalized fluid retention. With patients whose hypertension is complicated by congestive heart failure, care should be taken to differentiate the intermediate that the structure of systamately 8% at 30 mg. 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 load. Do not tows a loking hosphatase. (PK, LDH, SGOT, and SGPT have been noted. The relationship to infedipine therapy is uncertain in most cares, but probable in some. These laboratory abnarmalities have rarely been associated with clinical symptoms; however, holestasis with or without joundice has been reported. A small increase (<5%) in mean elkoline phosphatase. (PK, LDH, SGOT, and Fell oxide Indigine therapy is uncertain in most cares, but probable in some. These laboratory abnarmalities have rarely been associated with clinical symptoms; however, holestasis with or rarely reuted in values with clinical symptoms; noweus an studies phosphatase. (PK, Holestasis with a caretary studies, ADALAT (C did not adversely affect serum uric acid, glucose, cho-lestend or potassium. esterol or potassium

Nifediaine, like other calcium channel blockers, decreases platelet aggreg Nifedipine, like other calcium channel blackers, decreases platelet aggregation in viro. Limited clinical sludies 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 have been demonstrated. Positive direct (coambs' test with or without hemolytic anemia has been reported but a causal relationship between nifedipine administration and positivity of this loboratory 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.

The informative of the elements of the element

Real People, Real Needs, Real Value

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

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 Cardiovescular: atrial librillation, bradycardia, cardiaic arrest, extrasystole, hypotension, palpitations, phebitis, postural hypotension, tachycardia, cutaneous ang-siccase: Central Nervous System: anxivty, contasion, dereased libido, depression, hypertonia, insomnia, somolence Dermetologic: pruritus, sweating Gestrointestimal abaomal gain, diarrhea, dry mouth, dyspegnia, esophagins, flatu-lence, gastrointestimal hemorrhage, vamiting Hemotologic: lymphadenopathy Metabolic: gout, weight loss Musculoskeletat: arthralgia, arthritis, mydajia Respiratory: dyspnea, increased cough, rales, phoryngitis Special Senses: abaor-mal vision, amblyopia, conjunctivitis, diplopia, tinnitus Uregenital/Reproductive: kidney calculus, noturia, bress engorgement

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: impo-

mai vision, amblyopia, conjunctivitis, diplopia, tinnitus U**rogenital/Reproductive**: kidney calculus, noctruira, bresste negorgement The following adverse events have been reported rarely in patients given nifedipine in afher formulations: allergenic hepatitis, alopecia, anemia, arthritis with ANA (+), depression, erythromeloliga, exhlative dermatitis, fever, gingvind hyperplasia, gyneco-mastia, leukopenia, mood changes, muscle cramps, nervousness, paranoid syndrome, purpuro, shakiness, sleep disturbances, syn-cope, taste perversion, thromborytopenia, transient blindness at the peak plasma level, transe and urticinia

tremor and urticaria

DOSAGE AND ADMINISTRATION: Dosages AND ADMINISINATION Dosages should be adjusted according to each patient's needs. It is recommended that ADALAT (C be administered orally once adnij on an empty stomach. ADALAT (C is an extended release dosage form and tablets

Ginetidine: 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-SGD, the enzyme system probably responsible for the inst-spass metobolism of nifedipine. It nifedipine therapy is initiated in a patient currently receiving cimetidine, cautious fitration is advised

tion is ourview. Carcinogenesis, Mutagenesis, Impairment of Fertility: Nifedipine was adminis-tered crally to trats for two years and was not shown to be carcinogenic. When given to trats prior to mating, nifedipine caused reduced fertility at a dose approximately 30 times the maximum recommended human dose. In vivo mutagenicity studies were neg-

arive. **Pregnancy:** Pregnancy Category C. In rodents, robbits and monkeys, nifedipine has been shown to have a variety of embryotoxic, placentotoxic and fatotoxic effects, includ-ing stunted fetuses (rats, mice and robbits), digital anomalies (rats and robbits), rib detormities (mice), deft palate (mice), small placents and underdeveloped chorionic villi (mankeys), embryonic and fetal deaths (rats, mice and robbits), prolonged pregnancy (rats; not evaluated in other species), and decreased neonatal survival (rats; not evaluat-ed in other species). On a mg/kg or mg/m² 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 infedipine-exposed rabbit pups are strikingly similar to those seen in pups exposed to phenytoin, and these are in turn similar to the pha-langeal deformities that are the most common malformation seen in human children with *in uters* exposure to phenytoin. There are no adequate and well-controlled studies in pregnant wormen. ADALAT CC should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

reus. 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.

importance of the drug to the mather. **ADVERSE EXPERIENCES:** The incidence of adverse events during treatment with ADLAIT (C in does up to 90 mg daily were derived from multi-center placebo-con-trolled clinical trials in 370 hypertensive patients. Atenolal 50 mg ance daily was used concomitantly in 187 of the 370 patients on ADLAIT (C and in 64 of the 126 patients on placebo. All adverse events reported during ADALAIT (C and in 64 of the 126 patients) The most common adverse event reported with ADALAI® (C was peripheral edema. This was dose related and the frequency was 18% on ADALAIT (C 30 mg daily, 22% on ADALAIT (C 60 mg daily and 29% on ADALAIT (C 90 mg daily versus 10% on placebo. Other common adverse events reported in the above placebo-controlled trials includer: Headanch (19%, versus 13% placebo incidence); Flushing/heat sensation (4%, versus 0% placebo incidence); Diazines (4%, versus 2% placebo incidence); forsigue/asthenia (4%, versus 4% placebo incidence). Nausea (2%, versus 1% placebo incidence); Constipation (1%, versus 0% placebo incidence).

Constipation (1%, versus 0% placebo incidence); Nousea (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 control be established. The following adverse events were evented

e following adverse events were reported with an incidence of 3% or less in daily sees up to 90 mg:

extended referse dosage form and tables: should be swallowed whole, not bitten or divided. In general, titration should proceed over a 7-14 day period storting with 30 mg once daily. Upward ittration should be based on therapeutic efficacy and safety. The usual maintenance dose is 30 mg to 60 mg once daily. Utration to dose solve 90 mg daily's not recommended. If discontinuation of ADALAT CC is necessary, sound clinical practice suggests that the dosage should be decreased gradually with dose physician supervision. Care should be decreased gradually with dose physician supervision.

PZ10074485	5/93	© 1993 Miles Inc.	3060 Printed in USA
			Printed in US

References:

 Data on file, Miles Inc.
 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. Redbook Update. Oradell, NJ, Medical Economics Co. March 1993;p. 32.

"Calculations based on suggested Average Wholesale Price (AWP). Procardia XL is a registered trademark of Pfizer Labs Division, Pfizer Inc.



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IN MANY CHRONIC ARTHRITIS PATIENTS

Expect Success from the #1 Prescribed NSAID*



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

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

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.

EXPECT SUCCESS FROM NAPROSYN® (NAPROXEN) 500 mg tablets

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

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



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NAPROSYN (NAPROXEN) 500 mg tablets

Briel 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 NAPHOSYN, ANAPHOX or ANAPHOX US or in whom aspirin or other NSAIDs induce the syndrome of asthma, rhinits, 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 **Warning:** 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, symp-tomatic upper GI ulcers, gross bleeding or perforation appear to occur in apporximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for 3-6 months, and in about 2-4% of patients treated for 3-6 months, and in about 2-4%, of patients treated for 3-6 months, and in about 2-4%, of patients treated for 3-6 months, and in about 2-4%, of patients treated for 3-6 months, and in about 2-4%, of patients treated for 3-6 keys, exet, have been associated with increased risk. Elderly or debilitated patients seem to loireat ulceration or bleeding less well than others and most spontaneous reports of fata IG events are in this population. In consideriat ulceration or bleeding doss (within the recom-mended dosage range), sufficient benefit should be anticipated to offset the potential increased risk. Elderly or debilitated patients seem to loireat ulceration or bleeding elses well than others and most spontaneous reports of fata IG events are in this population. In consideria ulceration or bleeding doss (within the recom-mended dosage range), sufficient benefit should be anticipated to offset the potential increased risk. Fiderly or debilitated patients seem to loireat ulcerations. Other Heaves Southan Constinue the drug Use with caution and montor serum creatinine end/or creatinne clearance in patients with sig 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 chorinic alcoholic liver desage or circhosis. With NSAIDs, borderline elevations of liver lests 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 il systemic manifestations occur (e.g. eosinophila or rash), discontinue ther-apy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, includ-ing 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. Periph-eral edma has been reported. Therefore, use with caution in patients with fluid retention, hypertension or heart laifure. The drug's antipyretic and anti-inflammatory activities may reduce fever and inflammation. SMIDs activities or value. Con-duct ophthalmic studies if any change or disturbance in vision occurs. For patients with patients the potential risks and likely beneftis of NSAID treatment, particularly when they are used for less serious conditions where freatment without NSAIDs may be an acceptable alternative. Patients should use caution for activ-tes requiring alertness if they experience drowsiness, diztness. vertigo or depression during therapy. Laboratory Test: Because serious of these and norm them of the importance or this tollow-up. **Drug interactions:** Use caution when giving concom-tanty with coursani-type anticoaguitatis, a hydano anemia CNS: aseptic meningitis, čognifive dysfunction. Dermáto-logic: epidermal necrolysis, erythema multiforme, photosen-sitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa, Stevens-Johnson syndrome, urticaria, Gi-non-peptic Gi ulceration, ulcerative stomalitis. Cardiovascular vasculitis General: angioneurotic edema, hyperglycemia, hypo-glycemia. **Dverdosage:** May have drowsiness, heartouru, indiges-tion, nausea, vomiting. A few patients have had seizures. Empty stomach and use usual supportive measures. In animals 05 g/kg of activated charcoal reduced plasma levels of naprosen. **Caulion:** Federal law prohibits dispensing without prescription. See pack-age insert for full Prescribing Information.

Incidence of reported reaction 3%-9%. SYNTEX U.S. patent nos. 3,904,682, 3,998,966 and others © 1991 Syntex Puerto Rico, Inc. Rev. 39 Rev. 39 September 1990 1993 **Depression in the Elderly**

Sponsored by: American Medical Association supported by a grant from the National Institute of Mental Health D/ART Program

Recognizing and Treating Depression in the Elderly

The recognition of depression may be more difficult in late compared with early life. In the elderly age group, both clinicians and patients may incorrectly attribute depressive symptoms to the aging process. Estimates of depression in elderly people vary widely; however, there is a consensus that the size of the problem is underestimated. Furthermore, victims of depression, generally are not seen by mental health professionals.

Major depressive episodes require treatment in all age groups, including the elderly. All depressions negatively affect quality of life and are associated with increased risk of comorbid medical illnesses and suicide. They are not "normal and acceptable" features of aging and warrant early attention by physicians.

Families and primary care physicians remain at the front line in recognizing depression and facilitating patient access to professional help.

Three Regional Workshops are being offered to you at no cost.

The American Medical Association, through a grant from the National Institute of Mental Health, will present 3 regional workshops on the "Recognition and Treatment of Depression in the Elderly". They have been scheduled in regions having a high density of elderly in their populations. The workshops will discuss:

- depression in late life vs. earlier life
- · diagnosis of depression
- risk factors for depression
- epidemiology of depression
- differentiation of depression from other psychiatric illnesses including dementia
- what to look for and how to evaluate suicide potential
- treatment, including psychotherapies (individual, family and group), pharmacotherapies, electroconvulsive therapy
- prognosis
- preventing relapses

Clinical vignettes will be presented and will be the focus for discussion.

Who Should Attend

Primary care physicians, including family and general practitioners, internists, geriatricians, Ob/Gyn as well as other allied health professionals caring for the elderly.

CME Credit!

The American Medical Association is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The AMA designates this continuing medical education activity for 5 hours of Category 1 credit toward the Physician's Recognition Award of the American Medical Association.

Workshop Dates and Locations:

- October 16, 1993 Cedars Medical Center Miami, Florida
- November 6, 1993 Iowa Lutheran Hospital Des Moines, Iowa
- November 13, 1993 **Tucson Medical Center** Tucson, Arizona

For additional information or to register, please call or write: Department of Mental Health American Medical Association 515 N. State Street Chicago, IL 60610 (312) 464-5066

MIGRAINE MIGRAINE MIGRAINE RELIEVED

...In Minutes

- Effectively relieves acute migraine pain¹
- 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 minutes¹
- Somnolence (43%) is the most frequently reported side effect*
- Not a federally controlled substance

STADOL NS (butorphanol tartrate) Nasal Spray

Acute Pain Relief, Delivered in Minutes

*Across all clinical trials, including STADOL[®] Injectable and STADOL NS.[®] Patients should not perform hazardous tasks (eg, driving, operating machinery). Alcohol should not be consumed while using STADOL NS.

REFERENCES

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

©1993, Bristol-Myers Squibb Company, Princeton, New Jersey 08543, U.S.A. Please see brief summary of prescribing information on following page.

A Broke Abres Spelik Company Pisceton, New Jenny 08541 Dedicated to Excellence in Women's Health Care

NDC 0087-5650-41

(butorphanol tartrate) Nasal Spray 10 mg/mi For Nasal Use Only Spre below 86°F (30°C) CAUTION: Federal law prohibits dispensing without prescription.



Acute Pain Relief. **Delivered** in Minutes

R. Stadol NS 1 bottle Sig: Spray only once into only one nostril. Repeat in 1 hour if needed; additional doses 9 3-4 hours PRN

Brief Summary

STADUE NS" (butorphanol latrate) Nasal Spray is indicated for the management of pain when the use of an opioid analgesic is appropriate.

CONTRAINDICATIONS

cated in patients hypersensitive to butorphanol tartrate or the preservative benzethonium chloride. WARNINGS

NS III PATIERI

STEAL INSTRUCTIONS SPUCTORS IF PATIENT SPECTORS IF PATIENT

STADOL-

Patients Dependent on Narcotics

Because of its policid 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, halluci-nations, dysphoria, weakness and clarrhea.

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

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 hlud pressure, drug-induced micsis, 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.

Henstin and Renal Disease

In patients with Severa 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

consurvasuular criteris Because butorphanol may increase the work of the heart, especially the pulmonary circuit, the use of butorphanol in patients with acute myocardial infrarction, 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 he effective

Drug Interactions

Urug interactions Concurrent use of butorphanol with central nervous system depressants (e.g., alcohol, barbiturates, tranquilizers, and antihis -tamines) 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

butch plants anound be the stratest encode of use and use requery of obsing reduced as inten as possible when administrated concomitantly with drugs that plantiate the action of opioids. It is not known if the effects of butchphanol are aftered by concomitant medications that affect hepatic metabolism of drugs (cimeti-dine, crythromycin, 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 STADU[®] NS' (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 STADUL 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

Use in Amoulatory Patients Drowsiness and diziness 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 red human fibroblast cells

Rats treated orally with 160 mg/kg/day (944 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/sg.m.) had a higher frequency of stillbirths than controls. Butorphanol at 30 mg/kg/oral (5.1 mg/sg.m.) and 60 mg/kg/oral (10.2 mg/sg.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® (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 Lise

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

Geriatric Use Initially a 1 mg dose of STADOL* NS* (butorphanol tartrate) Nasal Soray 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 diziness due to STADOL NS than younger patients.

ADVERSE REACTIONS

AUVENDE TERM LINKS 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 analoesics.

observed with option analysis. 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 STADDL 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 STADDL Injectable and STADDL NS were somnolence (43%), disziness (19%), nause and/or vomiting (13%). In long-term trials with STADDL NS only, nasal congestion (13%) and incorrect 11%) user forewards reported.

mnia (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 buttorphanol.

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

CARDIOVASCHILAR: VASODILATION* PAUPITATIONS

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

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

RESPIRATORY: BRONCHITIS, COUGH, DYSPNEA*, EPISTAXIS*, NASAL CONGESTION (13%), NASAL IRRITATION*, PHARYNGI-TIS*, 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*NS* (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 optional 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® (butorphanol tartrate) Injectable has been reported to result in mild withdrawal syndromes, and reports of overuse and self-reported addiction have been received

Among 161 patients who used student new open 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 overuse. 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 hypoventilation, 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

ITEATIMENT The management of suspected butorphanol overdosage 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. Covygen 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 manitained 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

DOSAGE AND ADMINISTRATION

Pactors to be considered in determining the dose are age, body weight, physical status, underlying pathological condition, use of other drugs, type of anestnesia 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 1mg (1 spray in one nostril). Adherence to this dose reduces the inci-dence of drowsiness and dizziness. If adequate pain relief is not achieved within 60-90 minutes, an additional 1 mg dose may be

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 recumbert 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® NS* (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.

Mead binson

LABORATORIES A Bristol-Myers Squibb Company Princeton, New Jersey 08543

Caution: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION.

A4-K004-7-93

Time for a new partnership: Part 6 of a series

Medical liability claims add billions of dollars to America's health care costs. The good news is, a solution to the problem already exists.

The present civil justice system for resolving liability claims is unfair to patients, physicians and society. It doesn't deliver justice at all.

Most patients with legitimate claims can't even get into the system. At the same time, questionable claims are costing society millions. Only 43 cents of every dollar spent on liability litigation

ever reaches the patient. The rest is spent on lawyers' fees and court costs, often defending claims which should never have been made in the first place.

Physicians' medical liability insurance premiums have *tripled* over the past ten years. Almost 1 out of 8 obstetricians-gynecologists have stopped delivering babies because of the risk of liability claims.

To protect themselves from frivolous lawsuits, physicians, hospitals and clinics have to order more tests than would otherwise be needed. This practice is called "defensive medicine" and every year it adds up to \$25 billion to health care costs.

Ultimately, these added costs are passed on to *every* patient, in the form of higher health insurance, higher medical bills and reduced access to needed services.

Our agenda for change

The 300,000 members of the American Medical Association (AMA) are working to forge a new partnership with the Administration's Health Reform Task Force and members of Congress on behalf of our patients.

Our goal is comprehensive reform of America's health care delivery system and our agenda for change is defined in our proposal, *Health Access America*.

Anyone who is injured due to medical negligence should receive prompt and fair compensation. Our proposal calls for legislative reform that would increase access to care while reducing the inappropriate cost of defensive medicine and liability insurance premiums.

One reform measure has already been working for years. In 1983, California had medical liability premiums that were almost 50% higher than the national average. But in 1989, after six years

> of tort reform, premiums were *33% less* than the national average. If the largest state in America can make liability reform work, can't we make it work for the other 49?

Another solution would be to give states the incentive to explore alternatives to the present tort system. Ideas being discussed include binding arbitration by impartial panels, pre-trial screening of claims by neutral evaluators, and early offer and recovery proposals to encourage settlements. All are more patient-friendly and promise to channel funds to patient care, not administrative waste.

Eleven key issues

Medical liability reform is only one part of the AMA's agenda for change. Over the course of the new Administration's first 100 days and beyond, America's physicians will enter a dialogue with legislators and members of the Clinton team on *eleven key issues*

leading to total health system reform.

To stay fully informed, watch for additional messages in this series in *The Washington Post.* And send for our comprehensive proposal, *Health Access America.* We will also mail you our fact sheet on Medical Liability. Write Dr. John Clowe, Dept. 3015, American Medical Association, 515 North State Street, Chicago, IL 60610. Or call us today at **800 262-0411**.

American Medical Association

Physicians dedicated to the health of America



As appeared recently in *The Washington Post.*



must place our patients first.

a on eleven key issues

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March of Dime We deliver small miracles

NAPROSYN (NAPROXEN) 500 mg tablets

(NAPROXEN) 500 mg tablets Briel Summary: Contraindications: Patients who have had aliergic reactions to MAPROXEN, NANPROX or ANAPROX DS or in whom aspirin or other NSAIDs induce the syndrome of asthma, rhinitis, and nasal polyse. Because anaphytactic reactions usually occur in patients with a history of such reactions, question patients for asthma, nasal polyse, 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, symp-tomatic 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 to 3-6 months, and in about 2-4% of patients treated to 3-6 months, and in about 2-4% of patients treated to 3-6 months, and in about 2-4% of patients treated to 3-6 months, and in about 2-4% of patients treated to add to 3-6 months, and and 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, moking, etc. no risk factors (e.g. age, sex) have been associated with increased risk. Elderly or debilitated patients seem to loterate ulceration or bleeding less well than others and mot spontaneous reports of fatal GI events are in this population. In considering the use of relatively large doses (within the recom-mended dosage range), sufficient benefit should be anticipated to offset the potential increased risk. Elderly or **ANAPROX**. MARPROX MANON. Acute inter 15% of patients. They may progress, remain unchanged, or be transient with continued therapy. Elevations of SGPT or SGOT occurred in controlled clinical trails in less than 1% of patients. Severe hepatic reactions, including jaundice and fatal hepatitis, have been reported rarely. If liver disease develops or if systemic manifestations occur (e.g. eosinophila or rash), discontinue therapy. If steroid dosage is reduced or eliminated during therapy, do so slowly and observe patients closely for adverse effects, including jaudes of 10 grams or less who receive long-term therapy. Peripheral edema has been reported. Therefore, use with caution in patients with fulial releation, hypertension or heart failure. The drugs antipyretic and anti-inflammation-y activities may reduce fever and inflammation, thypertension or heart failure. The supersion contains 8 mg/mL of sodium linake, note hat the suspension contains 8 mg/mL of sodium linake, note hat the suspension contains 8 mg/mL of sodium linake, note hat the suspension contains 8 mg/mL of sodium linake. 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 studiud use caution for activities requiring alertness if they experience drowsiness, diziness, vertigo or depression during therapy. Laboratory Test: Because serious Gl tract ulceration and bleeding can occur without warning symptoms, follow-tonically treated patients for signs and symptoms of these and inform them of the importance of this follow-up. Drug Interactions: Use caution when giving concomtantly with they are used inform them of the importance of this follow-up. Drug Interactions: Use caution when giving concomtantly with they are used inform them of the importance of this follow-up. Drug Interactions: Use particular when giving concomtants with earliers. Head patients for Sion and even factores use and prolong bedding

*Incidence of reported reaction 3%-9%. SYNTEX U.S. patent nos. 3,904,682, 3,998,966 and others. = 1001 Suntex Puerto Rico, Inc. Rev. 39 September 1990

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.



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

SYNTEX

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