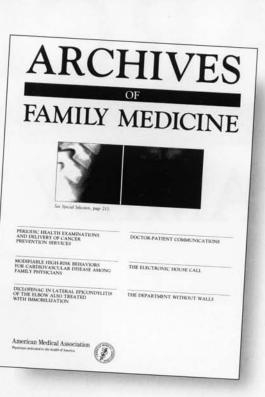
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Two caplets, once a day* (OXaprozin) 600-mg caplets

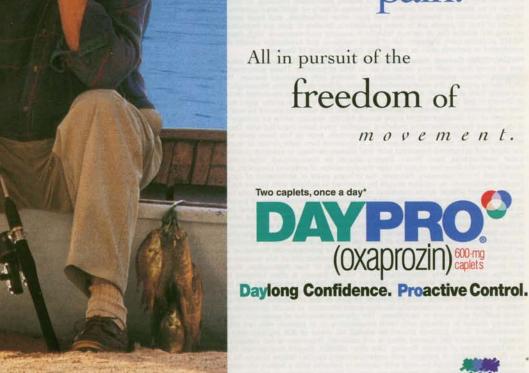
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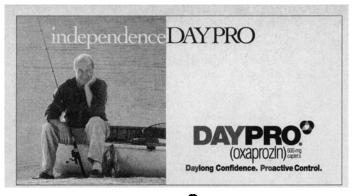
DAYPRO is indicated for the treatment of the signs and symptoms of OA and RA.

*Usual adult dosage is 1200 mg (two 600-mg caplets) once a day. For osteoarthritis patients of low body weight or with milder disease, an initial dosage of one 600-mg caplet once a day, or an optional one-time loading dose of 1200 mg, may be appropriate. Dosage should be individualized to the lowest effective dose; the maximum recommended total daily dosage is 1800 mg or 26 mg/kg, whichever is lower, in divided doses.

Contraindicated in patients with hypersensitivity to DAYPRO or in individuals with nasal polyps, angioedema, or bronchospastic reactivity to aspirin or other NSAIDs. Severe and occasionally fatal asthmatic and anaphylactic reactions to NSAIDs have been reported; there have been rare reports of anaphylaxis with DAYPRO. As with other NSAIDs, the most frequently reported adverse reactions were related to the GI tract. In patients treated chronically with NSAID therapy, serious GI toxicity, such as bleeding, ulceration, and perforation, can occur. Severe renal and hepatic reactions have been reported. There may be a risk of fatal hepatitis with oxaprozin, such as has been seen with other NSAIDs.

Please see brief summary of prescribing information on adjacent page.





BRIEF SUMMARY – **DAYPRO**⁵ (oxaprozin) 600-mg caplets Before prescribing please see full prescribing information.

INDICATIONS AND USAGE: Daypro is indicated for the treatment of the signs and symptoms of OA and RA.

CONTRAINDICATIONS: Hypersensitivity to oxaprozin or any of its components or in individuals with the complete or partial syndrome of nasal polyps, angioedema, and bronchospastic reactivity to aspirin or other nonsteroidal anti-inflammatory drugs (NSAIDs). Severe and occasionally fatal asthmatic and anaphylactic reactions have been reported in patients receiving NSAIDs, and there have been rare reports of anaphylaxis in patients taking oxaprozin.

WARNINGS: RISK OF GASTROINTESTINAL (GI) ULCERATION, BLEEDING, AND PERFO-RATION WITH NONSTEROIDAL ANTI-INFLAMMATORY DRUG THERAPY: Serious gastrointestinal toxicity, such as bleeding, ulceration, and perforation, can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Although minor upper gastrointestinal problems, such as dyspepsia, are common, and usually develop early in therapy, physicians should remain altert for ulceration and bleeding in patients treated chronically with NSAIDs, even in the absence of previous GI tract symptoms. In patients observed in clinical trials for several months to 2 years, symptomatic upper GI ulcers, gross bleeding, or perforation appear to occur in approximately 1% of patients treated for 3 to 6 months, and in about 2% to 4% of patients treated for 1 year. Physicians should inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take if they occur. Patients at risk for developing peptic ulceration and bleeding are those with a prior history of serious GI events, alcoholism, smoking, or other factors known to be associated with peptic ulcer disease. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than other individuals, and most spontaneous reports of fataI GI events are in these populations. Studies to date are inconclusive concerning the relative risk of various NSAIDs in causing such reactions. High doses of any NSAID probably carry a greater risk of these reactions, and substantial benefit should be anticipated to patients prior to prescribing maximal doses of Daypro. **PRECAUTIONS: General: Hepatic effects:** As with other NSAIDs, borderline elevations of

PRECAUTIONS: General: Hepatic effects: As with other NSAIDs, borderline elevations of one or more liver tests may occur in up to 15% of patients. These abnormalities may progress, remain essentially unchanged, or resolve with continued therapy. The SGPT (ALT) test is probably the most sensitive indicator of liver dysfunction. Meaningful (3 times the upper limit of normal) elevations of SGOT (AST) occurred in controlled clinical trials of Daypro in just under 1% of patients. A patient with symptoms and/or signs suggesting liver dysfunction or in whom an abnormal liver test has occurred should be evaluated for evidence of the development of more severe hepatic reaction while on therapy with this drug. Severe hepatic reactions including jaundice have been reported with Daypro, and there may be a risk of fatal hepatitis with oxaprozin, such as has been seen with other NSAIDs. Although such reactions are rare, if abnormal liver tests persist or worsen, clinical signs and symptoms consistent with liver disease develop, or systemic manifestations occur (eosinophilia, rash, fever), Daypro should be discontinued. Well-compensated hepatic cirrhosis does not appear to alter the disposition of unbound oxaprozin, so dosage adjustment is not necessary. However, the primary route of elimination of oxaprozin is hepatic metabolism, so caution should be observed in patients with severe hepatic dysfunction. Renal effects: Acute interstitial nephritis, hematuria, and proteinuria have been reported with Daypro as with other NSAIDs. Long-term administration of some NSAIDs This was not observed with oxaprozin, but the clinical significance of this difference is unknown. A second form of renal toxicity has been seen in patients with preexisting con-ditions leading to a reduction in renal blood flow, where the renal prostaglandins have a supportive role in the maintenance of renal perfusion. In these patients with free diministration of NSAND are particular to the second perfusion. In these patients with the second perfusion of the second perfusion of the second perfusion of the second perfusion. In these patients and the second perfusion of the second performance of the second perfusion of the second performance of the se supportive role in the maintenance of renal perfusion. In these patients administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with previously impaired renal function, heart failure, or liver dysfunction, those taking diuretics, and the elderly. Discontinuation of NSAID therapy is often followed by recov-ery to the pretreatment state. Those patients at high risk who chronically take oxaprozin should have renal function monitored if they have signs or symptoms that may be con-sistent with mild azotemia, such as malaise, fatigue, or loss of appetite. As with all NSAID therapy, patients may occasionally develop some elevation of serum creatinne and BUN levels without any signs or symptoms. The pharmacokinetics of oxaprozin may be sig-nificantly altered in patients should be started on doses of 600 mg/day, with cautious dosage increases if the desired effect is not obtained. Oxaprozin is not dialyzed because desage increases if the desired effect is not obtained. Oxaprozin is not dialyzed because of its high degree of protein binding. Like other NSAIDs, Daypro may worsen fluid reten-tion by the kidneys in patients with uncompensated cardiac failure due to its effect on prostaglandins. It should be used with caution in patients with a history of hypertension, cardiac decompensation, in patients on chronic diuretic therapy, or in those with other prostiguinding: it strotute ousdet with adultion in patients with a instally of in those with other conditions predisposing to fluid retention. *Photosensitivity*: Oxaprozin has been associ-ated with rash and/or mild photosensitivity in dermatologic testing. An increased inci-dence of rash on sun-exposed skin was seen in some patients in the clinical trials. *Recom-mended laboratory testing*: Because serious GI tract ulceration and bleeding can occur without warning symptoms, physicians should follow chronically treated patients for the signs and symptoms of ulceration and bleeding and should inform them of the impor-tance of this follow-up (see Warnings). Anemia may occur in patients receiving oxapro-zin or other NSAIDs. This may be due to fluid retention, gastrointestinal blood loss, or an incompletely described effect upon erythrogenesis. Patients on long-term treatment with Daypro should have their hemoglobin or hematocrit values determined at appropriate intervals as determined by the clinical situation. Oxaprozin, like other NSAIDs, can affect platelet aggregation and prolong bleeding time. Daypro should be used with caution in patients with underlying hemostatic defects or in those who are undergoing surgical pro-edures where a high degree of hemostasis is needed. Information for patients: Daypro, like other drugs of its class, nonsteroidal anti-inflammatory drugs (NSAIDs), is not free of side effects. The side effects of these drugs can cause discomfort and, rarely, serious side effects, such as gastrointestinal bleeding, which may result in hospitalization and even effects, such as gastrointestinal bleeding, which may result in hospitalization and even fatal outcomes. NSAIDs are often essential agents in the management of arthritis, but they ratial outcomes. NSAIDs are often essential agents in the management of artnritis, but they may also be commonly employed for conditions that are less serious. Physicians may wish to discuss with their patients the potential risks (see *Warnings, Precautions,* and *Adverse Reactions*) and likely benefits of Daypro treatment, particularly in less-serious conditions where treatment without Daypro may represent an acceptable alternative to both the patient and the physician. Patients receiving Daypro may benefit from physician instruction in the symptoms of the more common or serious gastrointestinal, renal,

DAYPRO[©] (oxaprozin) 600-mg caplets

hepatic, hematologic, and dermatologic adverse effects. Laboratory test interactions: False-positive urine immunoassay screening tests for benzodiazepines have been reported in patients taking Daypro. This is due to lack of specificity of the screening tests. False-positive test results may be expected for several days following discontinuation of Daypro therapy. Confirmatory tests, such as gas chromatography/mass spectrometry, will distinguish Daypro from benzodiazepines. **Drug interactions**: <u>Aspirin</u>: Concomitant admin-istration of Daypro and aspirin is not recommended because oxaprozin displaces salicy-Istration of Daypo and aspirin is not recommended because oxaprozin displaces salicy-lates from plasma protein binding sites. Coadministration would be expected to increase the risk of salicylate toxicity. <u>Oral anticoagulants</u>: The anticoagulant effects of warfarin were not affected by the coadministration of 1200 mg/day of Daypor. Nevertheless, caution should be exercised when adding any drug that affects platelet function to the regimen of patients receiving oral anticoagulants. <u>H*p*-receptor antagonists</u>: The total body clearance of oxaprozin was reduced by 20% in subjects who concurrently received ther-cevitin decent of anticidence of anticidence of the providence used. clearance of oxaprozin was reduced by 20% in subjects who concurrently received ther-apeutic doses of cimetidine or ranitidine; no other pharmacokinetic parameter was affected. A change of clearance of this magnitude lies within the range of normal varia-tion and is unlikely to produce a clinically detectable difference in the outcome of therapy. Beta-blockers: Subjects receiving 1200 mg Daypro qd with 100 mg metoprolol bid exhib-ited statistically significant but transient increases in sitting and standing blood pressures after 14 days. Therefore, as with all NSAIDs, routine blood pressure monitoring should be considered in these patients when starting Daypro therapy. *Other drugs*: The coad-ministration of oxaprozin and antacids, acetaminophen, or conjugated estrogens resulted in no statistically significant changes in pharmacokinetic parameters in single- and/or mul-tiple-dose studied. Carcinogenesis, mutagenesis, impairment of fertility: In oncogenicity studies, oxaprozin administration for 2 years was associated with the exacerbation of liver not been studied. Carcinogenesis, mutagenesis, impairment of ferunty: in oncogenicity studies, oxeprozin administration for 2 years was associated with the exacerbation of liver neoplasms (hepatic adenomas and carcinomas) in male CD mice, but not in female CD mice or rats. The significance of this species-specific finding to man is unknown. Oxa-prozin did not display mutagenic potential. Results from the Ames test, forward mutation in yeast and Chinese hamster ovary (CHO) cells, DNA repair testing in CHO cells, micro-nucleus testing in mouse bone marrow, chromosomal aberration testing in human lymin yeast and Chinese hamster ovary (CHO) cells, DNA repair testing in CHO cells, micro-nucleus testing in mouse bone marrow, chromosomal aberration testing in human lym-phocytes, and cell transforming ability. Oxaprozin administration was not associated with impairment of fertility in male and female rats at oral doses up to 200 mg/kg/day (1180 mg/m²); the usual human dose is 17 mg/kg/day (629 mg/m²). However, testicular degeneration was observed in beagle dogs treated with 37.5 to 150 mg/kg/day (750 to 3000 mg/m²) of oxaprozin for 6 months, or 37.5 mg/kg/day for 42 days, a finding not con-firmed in other species. The clinical relevance of this finding is not known. **Pregnancy**: Teratogenic Effects—Pregnancy Category C. There are no adequate or well-controlled studies in pregnant women. Teratology studies with oxaprozin were performed in mice, rats, and rabbits. In mice and rats, no drug-related developmental abnormalities were observed at 50 to 200 mg/kg/day of oxaprozin (225 to 900 mg/m²). However, in rabbits, infrequent malformed fetuses were observed in dams treated with 7.5 to 30 mg/kg/day of oxaprozin (the usual human dosage range). Oxaprozin should be used during pregnancy only if the potential benefits justify the potential risks to the fetus. Labor and delivery: The effect of oxaprozin in pregnant women is unknown. NSAIDs are known to delay par-turition, to accelerate closure of the fetal ductus arteriosus, and to be associated with dys-tocia. Oxaprozin is known to have caused decreases in pup survival in rat studies. Accord-ingly, the use of oxaprozin during late pregnancy should be avoided. **Nursing mothers:** Studies of oxaprozin excretion in human milk have not been conducted, however, oxa-prozin was found in the milk of lactating rats. Since the effects of oxaprozin on infants are not known, caution should be exercised if oxaprozin is administered to nursing women. **Pediatric use:** No adjustment of the dose of Daypro in children have not been estab-lished. **Geriatric use:** No adjust pharmacokinetic reasons, although many elderly may heed to receive a reduced dose because of low body weight or disorders associated with aging. No significant differences in the pharmacokinetic profile for oxaprozin were seen in studies in the healthy elderly. Although selected elderly patients in controlled clinical trials tolerated Daypro as well as younger patients, caution should be exercised in treating the elderly, and extra care should be taken when choosing a dose. As with any NSAID, the elderly are likely to tolerate adverse reactions less well than younger patients.

adverse reactions less well than younger patients. ADVERSE REACTIONS: The most frequently reported adverse reactions were related to the gastrointestinal tract. They were nauses (8%) and dyspepsia (8%). INCIDENCE GREATER THAN 1%: In clinical trials the following adverse reactions occurring in 3% to 9% of patients treated with Daypro are indicated by an asterisk(*); those reactions occurring in less than 3% of patients are unmarked. Abdominal pain/distress, anorexia, constipation*, diarrhea*, dyspepia*, flatulence, nausea*, vomiting, CNS inhibition (depression, sedation, somolence, or confusion), disturbance of sleep, rash*, tinnitus, dysuria or frequency. INCIDENCE LESS THAN 1%: Probable causal relationship: The following adverse reactions were reported in clinical trials or from worldwide marketing experience at an incidence of less than 1%. Those reactions reported only from worldwide marketing experience are in *italics*. The probability of a causal relationship exists between the drug and these adverse reactions: Drug hypersensitivity reactions including anaphylaxis and serum sickness, edema, blood pressure changes, peptic ulceration and/or GI bleeding (see Warnings), liver function abnormalities including hepatitis (see Precau *tions*), stomatitis, hemorrhoidal or rectal bleeding, pancreatitis, anemia, thrombocyto photosensitivity, pseudoporphyria, exfoliative dermatitis, erythema multiforme, Stevens-Johson syndrome, toxic epidermal necrolysis (Lyell's syndrome), blurred vision, conjunctivitis, acute interstitial nephritis, hematuria, renal insufficiency, acute renal failure, decreased menstrual flow. Causal relationship runknown. The following adverse reactions occurred at an incidence of less than 1% in clinical trials, or were suggested from marketing experience, under circumstances where a causal relationship could not be definitely established. They are listed as alerting information for the physician: Palpitations, alteration in taste, sinusitis, pulmonary infection

DRUG ABUSE AND DEPENDENCE: Daypro is a non-narcotic drug. Usually reliable animal studies have indicated that Daypro has no known addiction potential in humans.

OVERDOSAGE: No patient experienced either an accidental or intentional overdosage of Daypro in the clinical trials of the drug. Symptoms following acute overdose with other NSAIDs are usually limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain and are generally reversible with supportive care. Gastrointestinal bleeding and coma have occurred following NSAID overdose. Hypertension, acute renal failure, and respiratory depression are rare. Patients should be amanged by symptoms to add supportive care following an NSAID overdose. There are no specific antidotes. Gut decontamination may be indicated in patients seen within 4 hours of ingestion with symptoms or following a large overdose (5 to 10 times the usual dose). This should be accomplished via emesis and/or activated charcoal (60 to 100 g in adults, 1 to 2 g/kg in children) with an osmotic cathartic. Forced diuresis, alkalization of the urine, or hemoperfusion would probably not be useful due to the high degree of protein binding of oxaprozin. See package insert for complete prescribing information.

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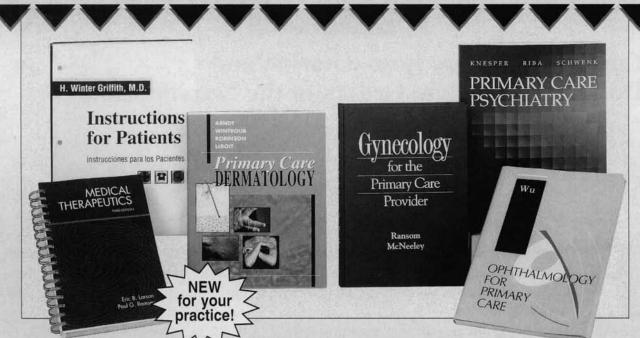
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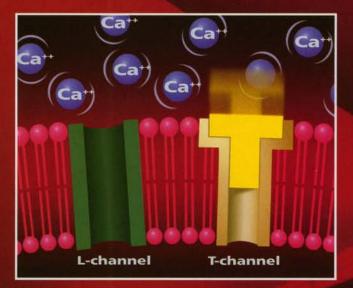


Pharmaceuticals



The <u>first</u> and <u>only</u> agent to selectively block T-type calcium channels^{*1}

- Current calcium antagonists act primarily on L-type calcium channels²
- T-type calcium channels are found in vascular smooth muscle cells, the sinoatrial node, Purkinje cells², and neurohormonal secretory cells³
- The first of a new class of calcium antagonist in 15 years,⁴ a tetralol derivative



Artist's rendition of T-channel blockade at smooth muscle cell membrane.

*Based on animal and in vitro data, POSICOR has been shown to be a T-type calcium channel blocker; however, the clinical significance of this characteristic has not been established at this time.

References: 1. Mishra SK, Hermsmeyer K. Selective inhibition of T-type Ca2+ channels by RO 40-5967. *Circ Res.* 1994;75: 144-148. 2. Bean B. Pharmacology of calcium channels in cardiac muscle, vascular muscle, and neurons. *Am J Hypertens.* 1991;4:4065-4115. 3. Bean B. Classes of calcium channels in vertebrate cells. *Ann Rev Physiol.* 1989; 51:367-384. 4. IMS America.

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of POSICOR

Well-tolerated safety profile

- The only calcium antagonist to induce a slight reduction in heart rate without a negative inotropic effect⁵ at therapeutic concentrations⁶
- Provides vasodilation without reflex tachycardia
- Safety regardless of age⁷, race, gender, and in patients with renal failure or diabetes, established in studies involving over 3400 patients

Coadministration of POSICOR with terfenadine, astemizole, or cisapride, and in patients with sick sinus syndrome or 2nd or 3rd degree AV block, without a pacemaker, is contraindicated.

Patients with a pretreatment heart rate below 50 bpm should be followed closely. As with all calcium channel blockers, caution should be exercised when treating patients with heart failure or compromised ventricular function. When POSICOR is coadministered with some drugs (e.g., quinidine, sotalol) it may be difficult to use serial ECGs for monitoring the effects of these other drugs.

References: 5. Frishman W. Calcium channel blockers. In: Cardiovascular Pharmacotherapoutics. New York, NYMcGraw-Hill Companies, Inc;1997;chap 8. 6. Rousseau M. Hayashida W, van Eyll C, et al. Hemodynamic and cardiac effects of the selective T-type and L-type calcium channel blocking agent mibefradil in patients with varying degrees of left ventricular systolic dystunction. J Am Coll Cardiol. 1996;28:972-979. 7. Bursztyn M, Kadr H, Tilvis R, et al. Mibefradil, a novel calcium antagonisti, in elderty hypertensives: favorable hemodynamics and pharmacokinetics. Accepted for publication in Am Heart J.

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effective management of hypertension

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Unsurpassed antihypertensive efficacy

- Effective control of both systolic⁸ and diastolic⁹ blood pressure
- Consistent, smooth 24-hour control, including early morning hours^{9,10}

POSICOR vs Norvasc*

 Unsurpassed antihypertensive efficacy^{11,12} with significantly less leg edema (6.8% vs 16.7%, P=0.011)¹²

POSICOR vs Procardia XL[†]

Unsurpassed antihypertensive efficacy^{13,14} with significantly less leg edema (3.2% vs 10.3%, P=0.027) and headache (0.8% vs 8.7%, P=0.002)¹³

POSICOR vs Cardizem CD⁺

 Superior antihypertensive efficacy (P<0.001) with an unsurpassed side effect profile^{15,16}

 * Norvasc (amlodipine besylate) is a registered trademark of Pfizer.
 † Procardia XL (nifedipine GITS) is a registered trademark of Pfizer.
 ‡ Cardizem CD (diltiazem HCI) is a registered trademark of Hoechst Marion Roussel.

References: 8. Data on file (Ref. 074-007), Hoffmann-La Roche Inc., Nutley, New Jersey 07110. 9. Oparil S, Köbrin I, Abernethy D, et al. Dose-response characteristics of miberfadil, a novel calcium antagonist, in the treatment of essential hypertension. Accepted for publication in *Am J. Hypertens*. 10. Schmitt R, Kleinbloesem C, Beiz G, et al. Hemodynamic and humoral effects of the novel calcium antagonist RO 40-5967 in patients with hypertension. *Clin Pharmacol Ther*. 1992;52: 314-323. 11. Viskoper R, Bernink P, Ziekenhuis M, et al. A randomized, double-blind trial comparing miberfaradi and amiodipine: two long-acting calcium antagonists with similar efficacy but different tolerability profiles. Accepted for publication in *J. Human Hypertens*. 12. Data on file (Ref. 074-008), Hoffmann-La Roche Inc., Nutley, New Jersey 07110. 15. Data on file (Ref. 074-009), Hoffmann-La Roche Inc., Nutley, New Jersey 07110. 15. Massie B, Chrysant S, Jain A, Weir M, Weiss R, Kobrin I. Antihypertensive effects of mibefradil: a double-blind comparison with diltiazem CD. *Clin Cardiol*. 1997;20:52-588. 16. Data on file (Ref. 074-015), Hoffmann-La Roffmann-La Roche Inc., Nutley, New Jersey 07110.



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comparable to placebo

Excellent tolerability profile at both doses

 Does not cause constipation¹⁷ Compare the tolerability of POSICOR to placebo

Adverse Event	Placebo (n=283)	POSICOR 50 mg (n=279)	POSICOR 100 mg (n=285)
Headache	6%	3%	8%
Leg Edema	3%	1%	4%
Rhinitis	0%	3%	3%
Abdominal Pain	1%	1%	2%
Light-headed Feeling	0%	1%	3%
Dyspepsia	1%	1%	2%

Coadministration of POSICOR with terfenadine, astemizole, or cisapride, and in patients with sick sinus syndrome or 2nd or 3rd degree AV block, without a pacemaker, is contraindicated. Patients with a pretreatment heart rate below 50 bpm should be followed closely. As with all calcium channel blockers, caution should be exercised when treating patients with heart failure or compromised ventricular function.

When POSICOR is coadministered with some drugs (e.g., quinidine, sotalol) it may be difficult to use serial ECGs for monitoring the effects of these other drugs.

Reference: 17. Data on file (Ref. 074-013), Hoffmann-La Roche Inc., Nutley, New Jersey 07110.

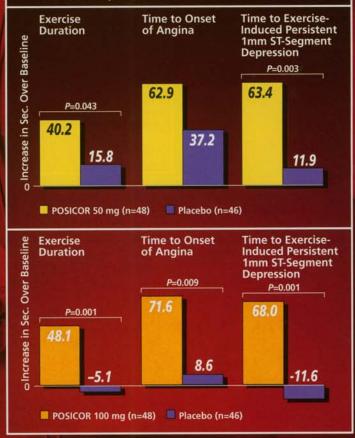
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improves ETT parameters

Consistent control of angina

Used alone¹⁸ or in combination with beta-blockers^{19,20} or nitrates²¹ POSICOR vs Placebo with existing betablocker therapy in Exercise Tolerance Test (ETT) parameters^{*20}



References: 18. Bakx A, van der Wall E, Braun S, Emanuelsson H, Bruschke A, Kobrin I. Effects of the new calcium antagonist mibefradii (RO 40-5967) on exercise duration in patients with chronic stable angina pectoris: a multicenter, placebo-controlled study. *Am Heart J.* 1995; 130:748-757. 19. Alpert J, Kobrin I, DeQuattro V, et al. Additional antianginal and anti-ischemic efficacy of mibefradii in patients pretreated with a beta blocker for chronic stable angina pectoris. *Am J Cardiol.* 1997;79:1025-1030. 20. Schneeweiss A, Kobrin I, Caspi A, et al. Adding the new calcium antagonist mibefradii to patients on chronic 8-blocker therapy results in improved anti-anginal and anti-ischemic efficacy. Submitted for publication in *Am Heart J.* 21. Data on file (Ref. 074-011), Hoffmann-La Roche Inc., Nutley. New Jersey 07110.



Please see Brief Summary of product information on last page. *Study Design: 4-week, randomized, double-blind, placebo-controlled Exercise Duration Baseline: POSICOR (343.1 sec) Placebo (350.7 sec) Time to Onset of Angina Baseline: POSICOR (262.1 sec) Placebo (272.6 sec) Time to Exercise-Induced Persistent 1mm ST-Segment Depression Baseline: POSICOR (281.5 sec) Placebo (287.5 sec)



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Selectivity

 The first and only agent to selectively block T-type calcium channels¹

Safety

- The only calcium antagonist to induce a slight reduction in heart rate without a negative inotropic effect⁵ at therapeutic concentrations⁶
- Provides vasodilation without reflex tachycardia

Ability

- Effective control of hypertension
- Unsurpassed antihypertensive efficacy vs Norvasc^{11,12} and Procardia XL^{13,14}
- Superior antihypertensive efficacy vs Cardizem CD^{15,16}

Tolerability

Comparable to placebo

Activity

 Consistent control of angina; improves ETT parameters²²

Coadministration of POSICOR with terfenadine, astemizole, or cisapride, and in patients with sick sinus syndrome or 2nd or 3rd degree AV block, without a pacemaker, is contraindicated. Patients with a pretreatment heart rate below 50 bpm should be followed closely. As with all calcium channel blockers, caution should be exercised when treating patients with heart failure or compromised ventricular function.

When POSICOR is coadministered with some drugs (e.g., quinidine, sotalol) it may be difficult to use serial ECGs for monitoring the effects of these other drugs.

It may be necessary to adjust the dose of other drugs metabolized by Cytochrome P450 3A4 or 2D6 when given concomitantly with POSICOR. It is recommended to adjust the dose of tricyclic antidepressants and to monitor the levels of cyclosporine A when given concomitantly with POSICOR.

References: 1. Mishra SK, Hermsmeyer K. Selective inhibition of T-type Ca2+ channels by RO 40-5967. *Circ Res.* 1994;75: 144-148. **5.** Frishman W. Calcium channel blockers. In: *Carcliovascular Pharmacotherapeutics*. New York, NY:McGraw-Hill Companies, Inc;1997;chap 8. **6.** Rousseau M, Hayashida W, van Eyll C, et al. Hernodynamic and cardiac effects of the selective T-type and L-type calcium channel blocking agent mibefradil in patients with varying degrees of left ventricular systolic dysfunction. *J Am Coll Cardiol.* 1996;28:972-979. **11.** Viskoper R, Bernink P, Ziekenhuis M, et al. A randomized, double-blind trial comparing mibefradil and amlodipine: two long-acting calcium and cardiac with similar efficacy but different tolerability profiles. Accepted for publication in *J Human Hypertens.* **12.** Data on file (Ref. 074-008), Hoffmann-La Roche Inc., Nutley, New Jersey 07110. **13.** Data on file (Ref. 074-009), Hoffmann-La Roche Inc., Nutley, New Jersey 07110. **15.** Massie B, Chrysant S, Jain A, Weir M, Weiss R, Kobrin I. Antihypertensive effects of mibefradil: a double-blind comparison with diltiazem CD. *Clin Cardiol.* 1997;20:562-568. **16.** Data on file (Ref. 074-015), Hoffmann-La Roche Inc., Nutley, New Jersey 07110. **27.** Tixvon D, Kadr H, Braat S, et al. Efficacy of mibefradil in comparison to amlodipine in suppressing exercise-induced and daily silent ischemia: results of a multicenter, placebo-controlled trial. Accepted for publication in *Circulation*.





Before prescribing, please see complete product information, a summary of which follows.

DESCRIPTION: POSICOR® (mibefradil dihydrochloride) is a selective T-type calcium channel ion influx inhibitor

INDICATIONS AND USAGE: POSICOR is indicated for the treatment of hypertension or chronic stable angina pectoris. POSICOR can be used alone or in combination with other antihypertensive agents or antianginal agents.

OVERDOSAGE: At present there has been no experience with single doses >350 mg or multiple doses >250 mg. Doses higher than these might cause excessive peripheral vasodilation with marked hypotension, brady-cardia and/or high-degree AV block. If a patient is suspected of having taken an overdose, continuus ECG mon-tioring and repeated blood pressure measurements should be instituted. Should hypotension occur, cardiovasutility and repeated blood pressure measurements should be instituted. Should repeated blood pression of the extremities and the judicious administration of fluids should be initiated. If hypotension remains unresponsive to these measures, administration of vasopressors (such as phenylephrine) should be considered with attention to circulating volume and urine output. Intravenous calcium gluconate may help to reverse the effects of calcium antagonists. As mibefradil is highly bound to plasma proteins, it cannot be removed by dialysis.

Bradycardia and high-degree AV block may be treated with atropine, isoproterenol and cardiac pacing

DOSAGE AND ADMINISTRATION: The recommended doses of POSICOR are 50 mg and 100 mg once daily. The larger dose is, on average, more effective. Doses above 100 mg offer little or no additional benefit and induce a greater rate of adverse reactions. POSICOR can be taken with or without food. Tablets should be swallowed and not chewed or crushed.

Coadministration with Other Antihypertensive and/or Antianginal Drugs: POSICOR has been safely administered with diuretics, ACE inhibitors, beta-blockers, long-acting nitrates and sublingual nitroglycerin

Administration in Subpopulations: POSICOR has been used safety in patients regardless of age, race, gender, and body weight and in those with common concomitant diseases, such as chronic renal failure, chronic obstructive pulmonary disease and diabetes mellitus. However, caution should be exercised in patients with severe hepatic impairment.

CONTRAINDICATIONS: POSICOR is contraindicated in patients with:

1. Sick sinus syndrome or second- or third-degree AV block, without a pacemaker;

A known sensitivity to mibefradil:

3. Coadministration of terfenadine, asternizole and cisapride.

WARNING: Mibefradil may cause dose-related changes in the appearance of the electrocardiographic T and U waves. These changes may interfere with measurement of the QTc interval. Some drugs (eg, quinidine, sotalol) are sometimes monitored by following the OTC interval on serial electrocardiograms, in order to reduce the risk of torsades de pointes and other malignant arrhythmias. When mibefradil is coadministered with these drugs, it may be difficult to utilize serial electrocardiograms for this purpose.

PRECAUTIONS: General: POSICOR inhibits crytectrome P450 206 and 3A4 and can interact with many con-comitant drugs, increasing their plasma concentrations (see *Drug Interactions*).

Hypotension: Although hypotension, postural hypotension, and syncope have been only rarely associated with POSICOR, and are not clearly more common than with placebo, caution should be exercised when administ ing POSICOR, particularly to patients with severe aortic stenosis.

Use in Patients with Congestive Heart Failure: Acute hemodynamic studies in a small number of patients with ischemic heart disease with or without impaired cardiac function treated with POSICOR have not demonstrated negative inotropic effects, nor was POSICOR associated with reflex tachycardia or an increase in neurohormones. Long-term studies in patients with moderate to severe (NYHA III, IV) heart failure have not been carried out As with all calcium antagonists, caution should be exercised when treating patients with heart failure or compro-mised ventricular function.

Patients with Hepatic Failure: Since mibefradil is extensively metabolized by the liver, caution should be exer-cised when administering POSICOR to patients with severe hepatic impairment.

Cardiac Conduction: As described under CLINICAL PHARMACOLOGY, POSICOR slows sinus and AV node con-duction, sometimes resulting in abnormally low heart rates; 0.7% and 1.4% of patients had heart rates below 45 bpm on 50 mg and 100 mg, respectively. Therefore, patients with a pretreatment heart rate below 50 bpm should be followed closely. Treatment with POSICOR has rarely been associated with second-degree AV block, 0.2% of patients on doses of 50 mg to 100 mg. No cases of third-degree AV block have been reported at 50 mg to 100 mg, but at higher doses third-degree AV block can rarely occur.

Drug Interactions: Effects of Other Drugs on Miberradii Pharmacokinetics: No clinically relevant changes in pharmacokinetics of mibefradii have been seen in specific studies when mibefradii was coadministered with enalapril, atenoiol, metoprolol, theophylline and cimetidine.

Effects of Miberradii on the Pharmacolinetics of Other Drugs: Interactions with Drugs Metabolized by Cytochrome P450 Enzymes: In vitro results indicate that some isozymes of the cytochrome P450 enzyme sys-tem, including 206, 1A2, and 3A4, are inhibited in the presence of miberradii or its metabolites. Coadministration of POSICOR with drugs metabolized by these isozymes may result in increased plasma concentrations of these drugs

orugs. Drugs Metabolized by Cytochrome P450 2D6: A subset (about 7%) of the white population and 1% and 2% of Orientals and blacks, respectively, have reduced activity of the drug-metabolizing isozyme cytochrome P450 2D6 (debrisoquine hydroxylase). Such individuals are referred to as "poor metabolizers" of such drugs as dex-tromethorphan, the type IC antiarritythmics proparenone, flecaniamule and mexiletine, some beta-blockers and tricyclic antidepressants (particularly those with high first-pass effect, ie, desipramine and impiramine). Poor metabolizers have higher than expected plasma concentrations of such drugs when given in usual doses. Depending on the fraction of the drug metabolized by cytochrome P450 2D6, the increase in plasma concentrations of such drugs when given in usual doses. Depending on the fraction of the drug metabolized by cytochrome P450 2D6, the increase in plasma concentrations of experimental metabolizers resemble poor metabolizers. Concomitant use of POSICOR with drugs metabolized by cytochrome P450 2D6 may require dose adjustment of the other drugs. Initiate the such tays the increase and designations have baye hower hown to betar substantial (or gune to adjust a designation baye base chown to have substantial) (or gune to a plasma concentrations of the drug metabolized by cytochrome P450 2D6 may require dose adjustment of the other drugs.

<u>Tricyclic Antidepressants</u>: Imipramine and desipramine have been shown to have substantial (seven- to eight-fold) increases in AUC when CYP 450 2D6 metabolism is inhibited; concomitant use of tricyclic antidepressants with POSICOR would require substantial dose adjustment of the tricyclic antidepressant.

Drugs Metabolized by Cytochrome P450 3A4: POSICOR and/or its metabolites also inhibit the activity of cytochrome P450 3A4, an enzyme responsible for the metabolism of many drugs, including quinidine, short-acting benzodiazepines, most calcium-channel blockers, terfenadine, astemizole and cisapride. POSICOR may increase bencoulazepines, must calcum-channel nockets, elementarile, astenizate and casaprice. POSICOM may increase plasma concentrations of coadministered drugs that are ofiniarily metabolized by the cytochrome P450 3A4 enzyme system and may consequently increase or prolong their therapeutic and adverse effects. Therefore, unless otherwise specified, dosage adjustment of these drugs may be necessary. For drugs that can cause serious adverse effects if concentration is increased, concomitant use with POSICOR should be avoided (see CONTRAINDICATIONS). The following drug interactions have been identified involving mibefradil and other drugs metabolized by the cytochrome P450 system:

International Tecoretation of terfenadine (metabolized by CYP 450 3A4) with POSICOR in healthy subjects led to elevated plasma concentrations of terfenadine up to 40 ng/mL with twice-daily dosing of 60 mg terfena-dine, resulting in a 12% increase in mean OTc interval. Since OTc prolongation due to elevated plasma concen-trations of terfenadine can be associated with life-threatening cardiac dyshythmias and death, coadministration of POSICOR with terfenadine is contraindicated (see CONTRAINDICATIONS).

Astemizole and Cisapride: Although there are no specific studies of interaction of mibefradil with these drugs, substantial inhibition of their metabolism would be expected. Since elevated plasma concentrations of astemi-zole and cisapride can be associated with life-threatening cardiac dysrhythmias, their use with mibefradil is contraindicated. One such case has been observed in a patient receiving cisapride and concomitant mibefradil.

<u>Cyclosporine A</u>: Cyclosporine A (Sandimmune[®]), a drug metabolized by CYP 450 3A4, levels increased about twofold under concomitant treatment with 50 mg POSICOR for eight days. Therefore, cyclosporine A levels should be monitored and its dose adjusted accordingly

Quiniding: In healthy volunteers, elevations in peak quinidine plasma concentrations (15% to 19%) and AUC (50%) were found during coadministration of single doses of quinidine with POSICOR 50 mg and 100 mg, but the active metabolite of quinidine was markedly reduced. No clinically relevant pharmacodynamic interactions were observed Metoprolol: Coadministration of POSICOR with metoprolol (metabolized by CYP 450 2D6) in healthy subjects

POSICOR® (mibefradil dihydrochloride)

resulted in a twofold increase in peak plasma concentrations of total (R- and S-enantiomeric) metoprolol and about four- to fivefold increase in ALC. Elimination half-life increased from three hours to seven to eight hours. The increase in the pharmacologically more active S-isomer, however, is only about 30%, so that little pharma-cologic effect or effect on cardioselectivity would be expected with concontiant POSICOR.

Other Information: In clinical studies, POSICOR has been administered without apparent harm with commonly used drugs including diuredis, beta-blocker, ACE inhibitors, nonsteroidal antirifiammatory drugs, long-acting nitrates, sublingual nitrodycerin, oral hypoglycernics, fibrate lipid-lowering agents, conjugated estrogens, antibi-otics and antifrombotics. CVP 450 3A4 mediates the metabolism of several HMS CAA reductase inhibitors. Use of these drugs has been associated with rhabdomyolysis, which may be more frequent when they are coad-ministered with drugs that inhibit CVP 450 3A4. Although no such adverse interaction has been seen with POSICOR, the possibility should be considered.

Specific Interaction Studies: In specific studies, no clinically relevant interactions have been observed between the recommended doses of POSICOR and enalapril, atenoiol or cimetidine. Despite in vitro evidence of inhibition of CYP 450 1A2, no pharmacokinetic interaction was observed with theophylline, a CYP 450 1A2 substrate. In healthy volunteers, small elevations in digoxin peak plasma levels (20% to 30%) were found during coadminis-tration with POSICOR 50 mg and 100 mg, but trough plasma levels were unchanged in these volunteers and in patients with congestive heart failure.

Protein Binding, Mitefacili is highly protein bound (99.5%), mainly to alpha,-acid glycoprotein (95%). Therefore, it will not displace drugs which bind to serum albumin, such as warfarin, phenytoin and digoxin.

Information for Patients: Patients should be instructed to take POSICOR whole and not to crush or chew the tablet. Patients should inform their physicians if they are pregnant or plan to become pregnant or are breast-feeding. Patients should be informed that light-headedness or fatigue can occur and that these symptoms should be reported to a physician.

Carcinogenesis, Mutagenesis and Impairment of Fertility: Mibefradil was not mutagenic in the Ames micro-bial mutagenicity test with or without metabolic activation, in the microbial test with E. coli or in Chinese ham-set V79 cells. No genotoxicity was observed in a test of unscheduled DNA synthesis in rat primary hepatocytes, and no chromosomal damage was observed in a test of human peripheral blood lymphocytes treated in vitro or in an in vivo micronucleus test.

A decrease in mating incidence and a prolongation of time to mating was observed when male and female rats were treated with mibefradil dihydrochioride at a daily dose of 39 mg mbefradil/kg morphonizably there times the maximum recommended human dose (MiHD) on a mg/m² basis) prior to and during the mating period. For those females successfully mated at this dose, there was a decrease in fetuses/dain observed at caesarean section or pups/dam at natural delivery, findings associated with both a decrease in number of corpora lutea per dam (evidence of a decrease in ovulation) and an increase in preimplantation loss (ovulations not resulting in implants). (evidence of a decrease in ovulation) and an increase in preimplantation loss (ovulations not resulting in implants). Oral gavage administration of mibefradii dhydrochloride to male mice for up to 95 weeks at doses up to 65 mg mibefradii/(ay) (about three times the MHPD of 100 mg mibefradii/(ay) on a mg/m² basis) revealed no evidence of a carcinogenic effect of mibefradii. When administered in the feed of rats at doses of 35 mg mibefradii/(ay/day) (about three times the MHPD of 100 mg mibefradii/(ay) an increased incidence of squarnous cell carcinoma of the oral cavity was observed. A similar association was observed when another rat study was conducted with similar doses of mibefradii administered by gavage. The latter study, which evaluated diet as a risk factor for the oral cavity tumors, demonstrated that the carcinogenic effect of mibefradii was dependent on the aggressiveness (in terms of producing severe periodontitis) of the diet employed combined with class-related gingival overgrowth. No tumors were observed when mibefradii was administered with acts as aggressive det associated with more resulted with sink as the periodontitis. **Pregnancy:** Pregnancy Category C. There are no adequate and well-controlled studies in pregnant women. POSICOR should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Labor and Delivery: POSICOR should be avoided during the time of expected labor and during parturition Nursing Mothers: Administration of mibefradil should be avoided, if possible, in lactating women who continue to nurse

Pediatric Use: Safety and effectiveness of POSICOR in pediatric patients have not been established.

Pediatric Use: Safety and effectiveness of POSICOR in pediatric patients have not been established. **ADVERSE REACTIONS:** POSICOR has been evaluated for safety in 3430 patients (2149 with hypertension, 1236 with chronic stable angina pectoris). In general, treatment with POSICOR was well tolerated at doses up to 100 mg daily. Most adverse reactions associated with POSICOR were transient and of mild or moderate intensity. In placebo-controlled clinical trials, the rate of discontinuation of POSICOR (50 mg and 100 mg) due to adverse reactions was similar to that of placebo. Discontinuation due to dizziness was the only reason for premature withdrawal that was more common on mibefradil than on placebo. In the pooled placebo-controlled hyperten-sion and chronic stable angina pectoris trials that studied doses of 50 mg/day and 100 mg/day, the incidence of adverse engeringene present in at laser 11 & 0 for attribute treated with bu 00 mg dose and more common on the adverse experiences present in at least 1% of patients treated with the 100 mg dose and more common on that dose than on placebo were:

		POSICOR	
	Placebo (N=283)	50 mg (N=279)	100 mg (N=285)
Headache	6%	3%	8%
Leg Edema	3%	1%	4%
Rhinitis	0%	3%	3%
Abdominal Pain	1%	1%	2%
Light-headed Feeling	0%	1%	3%
Dyspepsia	1%	1%	2%

The following adverse experiences were also present in >1% of patients treated with the 100 mg dose but occurred at a frequency equal to or less than placebo: allergic reaction, angina pectoris, dizziness, fatigue, flush-ing, influenza, palpitations, upper respiratory tract infection and vomiting/nausea.

The following adverse experiences occurred in a dose-related manner in placebo-controlled trials over a dose range of 50 mg to 150 mg; dizziness, dyspepsia, flushing, leg edema, rhinitis and vomiting/nausea. There were no clinically important differences in the effect of POSICOR on adverse experience rates based on age, gender or race.

In the 2636 patients treated with POSICOR (50 mg or 100 mg) in controlled or uncontrolled trials, the following adverse experiences, whether drug related or not, occurred at a frequency greater than 0.5% or occurred at a lower rate but were potentially important:

Autonomic Nervous System: increased sweating, orthostatic complaints, postural hypotension, syncope; Body as a Whole generalized weakness, trauma, Cardiovascular: bradycardla, cardiac failure, chest pain nonspecific, hypotension; Central and Peripheral Nervous System: paresthesia; Gastrointestinal: constipation, diarrhea, flatu-lence, gastroenteritis, rectal hemorrhage; Hearing and Vestibular: ear buzzing, otitis; Immunologic: angioedema; Musculoskeletal: arthritis, back pain, chest pain, muscle cramps, pain of externities, sprains and strains; Psychiatric: anxiety, depression, insormia; Reproductive, Male: impotence; Respiratory: brothitis, coughing, the depresentation of the second sec dyspnea, nasal congestion, pharyngitis, sinusitis; Skin and Appendages: extoliative dermatitis, rash; Urinary System: unnary tract infection; Vision: conjunctivitis.

Bectrocardiographic Changes: Treatment emergent ECG changes that clearly occurred in a dose-related man-ner in the placebo-controlled trials were bradycardia (heart rate < 45 bpm): 0.7% (50 mg) and 14% (100 mg) and first-degree AV block: 3.6% (50 mg) and 8.4% (100 mg). In the 2636 patients treated with POSICOR (50 mg or 100 mg) in controlled or uncontrolled trials, second-degree AV block was recorded in 0.2% of the patients POSICOR therapy has not been associated with clinically significant changes in routine laboratory tests. No clinically relevant changes were noted in hematology parameters, serum potassium, sodium, calcium, glucose, plas-ma lipids, uric acid, urea nitrogen, creatinine or liver function tests.

25995005-0697 Issued: June 1997 Printed in USA POSICOR® (mibefradil dihydrochloride)

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Pharmaceuticals

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Brief Summary of Prescribing Information as of December 1995A CARDIZEM® CD (diltiazem HCI) apsules

CONTRAINDICATIONS

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

WARNINGS

- 1. Cardiac Conduction. CARDIZEM prolongs AV node refractory periods without significantly prolonging Carting connection. CARDIZEM protongs AV node retractory periods without significantly protonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (13 of 3290 patients or 0.40%). Concomitant use of diltiazem with beta-blockers or digitalis may result in additive effects on cardiac conduction. A patient with Prinzmetal's angina devel-oped periods of asystole (2 to 5 seconds) after a single dose of 60 mg of diltiazem. (See ADVERSE REACTIONS section.)
- REACTIONS section.)
 2. Congestive Heart Failure. Although diltiazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal ventricular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dp/dt). An acute study of oral diltizarem in patients with impaired ventricular function (ejection faction 24% ± 6%) showed improvement in indices of ventricular function without significant decrease in contractile function (dp/dt). Worsening of congestive heart failure has been reported in patients with preexisting impairment of ventricular function. Experience with the use of CARDIZEM (diltiazem hydrochloride) in combination with beta-blockers in patients with impaired ventricular function is limited. Caution should be exercised when using this combination.
 3. Hypotension. Decreases in blod pressure associated with CARDIZEM therapy may occasionally result in symptomatic thyodension.
- Hypotension. Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension. Acute Hepatic Injury. Mild elevations of transaminases with and without concomitant elevation in alkaline phosphatase and bilirubin have been observed in clinical studies. Such elevations were usually transient and frequently resolved even with continued diltazem treatment. In rare instances, signifi-cant elevations in enzymes such as alkaline phosphatase, LDH, SGOT, SGPT, and other phenomena consistent with acute hepatic injury have been reversible upon discontinuation of drug therapy. The relationship to CARDIZEM is uncertain in some cases, but probable in some. (See PRECAUTIONS.) 4

PRECAUTIONS

PRECAUTIONS General CARDIZEM (diltiazem hydrochloride) is extensively metabolized by the liver and excreted by the kidneys and in bile. As with any drug given over prolonged periods, laboratory parameters of renal and hepatic function should be monitored at regular intervals. The drug should be used with caution in patients with impaired renal or hepatic function. In subacute and chronic dog and rat studies designed to produce toxicity, high doses of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with negatic damage. In special subacute hepatic with hepatic changes, however, these changes were reversible with continued dosing. Dermatological events (see ADVERSE REACTIONS section) may be transient and may disappear despite continued use of CARDIZEM. However, skin eruptions progressing to erythema multiforme and/or ervolation be discontinued.

Drug Interactions

to the potential for additive effects, caution and careful titration are warranted in patients receiving

Drug Interactions
Due to the potential for additive effects, caution and careful titration are warranted in patients receiving
CARDIZEM concomitantly with other agents known to affect cardiac contractility and/or conduction. (See
WARNINGS.) Pharmacologic studies indicate that there may be additive effects in prolonging AV conduction when using beta-blockers or digitalis concomitantly with CARDIZEM. (See WARNINGS.)
As with all drugs, care should be exercised when treating patients with multiple medications. CARDIZEM
undergoes biotransformation by cytochrome P-450 mixed function oxidase. Coadministration of
CARDIZEM with other agents which follow the same route of biotransformation may result in the compettive inhibition of metabolism. Especially in patients with renal and/or hepatic impairment, dosages of
similarly metabolized drugs, particularly those of low therapeutic ratio, may regulte adjustment when
starting or stopping concomitantly administered diltazem to maintain optimum therapeutic biod levels.
Beta-blockers. Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM
and beta-blockers is usually well tolerated, but available data are not sufficient to predict the effects of
concomitant treatment in patients with left ventricular dysfunction or cardiac conduction abnormalities.
Administration of CARDIZEM (diltiazem hydrochlorde) concomitantly with propranolol in five normal
volunteers resulted in increased propranolol levels in all subjects and bioavailability of propranolou as
increased approximately 50%. In vitro, propranolol appears to be displaced from its binding sites by diltiazem. If combination therapy is initiated or withdrawn in conjunction with propranolol, an adjustment in
the propranolol dose may be warranted. (See WARNINGS.).
Cimetidine. A study in six healthy volunteers has shown a significant increase in peak diltiazem therapy
should be carefully monitored for a change in pharmacological effect when initiating and discontinuing
therapy with cimetidines.

concomitantly, anesthetics and calcium blockers should be titrated carefully. Cyclosporine. A pharmacokinetic interaction between diltiazem and cyclosporine has been observed during studies involving renal and cardiac transplant patients. In renal and cardiac transplant recipients, a reduction of cyclosporine dose ranging from 15% to 48% was necessary to maintain cyclosporine trough concentrations similar to those seen prior to the addition of diltiazem. If these agents are to be administered concurrently, cyclosporine concentrations should be monitored, especially when diltiazem therapy is initiated, adjusted, or discontinued. The effect of cyclosporine on diltiazem plasma concentrations has not been evaluated.

Carbamazepine. Concomitant administration of diltiazem with carbamazepine has been reported to result in elevated serum levels of carbamazepine (40% to 72% increase), resulting in toxicity in some cases. Patients receiving these drugs concurrently should be monitored for a potential drug interaction.

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

Pregnancy Pregnancy Category C. Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fetal lethality. These doses, in some studies, have been reported to cause skeletal abnormalities. In the perinata/postnatal studies, there was an increased incidence of still-births at doses of 20 times the human dose or greater. There are no well-controlled studies in pregnant women; therefore, use CARDIZEM in pregnant women only if the notential herefit justifies the notential risk to the fetus.

only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

Diltazem is excreted in human milk. One report suggests that concentrations in breast milk may approx-imate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should be instituted.

Pediatric Use Safety and effectiveness in pediatric patients have not been established.

ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that Serious adverse reactions have been rare in studies carried out to care, out it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded from these studies. The following table presents the most common adverse reactions reported in placebo-controlled angina and hypertension trials in patients receiving CARDIZEM CD up to 360 mg with rates in placebo patients shown for comparison.

CARDIZEM CD Capsule Placebo-Controlled Angina and Hypertension Trials Combined

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

In clinical trials of CARDIZEM CD capsules, CARDIZEM tablets, and CARDIZEM SR capsules involving over 3200 patients, the most common events (ie, greater than 1%) were edema (4.6%), headache (4.6%), dizziness (3.5%), asthenia (2.6%), first-degree AV block (2.4%), bradycardia (1.7%), flushing (1.4%), nausea (1.4%), and rash (1.2%). In addition, the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported infrequently (less than 1%) in angina or hypertension triated in the following events were reported in the following events were r

Cardiovascular: Angina, arrhythmia, AV block (second- or third-degree), bundle branch block, conges-tive heart failure, ECG abnormalities, hypotension, palpitations, syncope, tachycardia, ventricular

Nervous System: Abnormal dreams, amnesi, depression, gait abnormality, hallucinations, insomnia, nervous ness, paresthesia, personality change, somolence, tinnitus, tremor Gastrointestinal: Anorexia, constipation, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGOT, SGPT, LDH, and alkaline phosphatase (see hepatic warnings), thirst, vomiting, weight increase Dermatological: Petechiae, photosensitivity, puritus, uriticaria Other: Amblyopia, CPK increase, dyspnea, epistaxis, eye irritation, hyperglycemia, hyperuricemia, impotence, muscle cramps, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: allergic reactions, alopecia, angioedema (including facial or periorbital edema), asystole, erythema multi-forme (including Stevens-Johnson syndrome, toxic epidermal necrolysis), extoliative dermatitis, extrapyramidal symptoms, gingival hyperplasia, hemolytic anemia, increased bleeding time, leukopenia, purpura, retinopathy and thrombocytopenia. In addition, events such as myocardia infarction have been observed which are not readily distinguishable from the natural history of the disease in these patients: A number of well-documented cases of generalized rash, some characterized as leukocytoclastic vasculitis, have been reported. However, a definitive cause and effect relationship between these events and CARDIZEM therapy is yet to be established. and CARDIZEM therapy is yet to be established.

Prescribing Information as of December 1995A

Hoechst Marion Roussel, Inc Kansas City, MO 64137 USA

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References: 1. Massie BM, Der E, Herman TS, Topolski P, Park GD, Stewart WH. Clin Cardiol. 1992;15:365-368. 2. Data on file, Hoechst Marion Roussel. 3. Procardia XL® prescribing information. 4. Norvasc® prescribing information. 5. Sular® prescribing information.

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

In Hypertension

 In a randomized, double-blind study of 127 hypertensives, 86% of patients reaching goal of blood pressure on CARDIZEM CD were controlled at 240 mg or less.¹

DAY

In Angina

 CARDIZEM CD is effective as monotherapy and adds efficacy to beta-blocker and/or nitrate therapy .^{2*}

Safety

- Unlike many short-acting and long-acting dihydropyridine products (nifedipine, amlodipine, nisoldipine), no warnings for increased incidence (rare) of myocardial infarction.³⁵
- Most commonly reported side effects are headache (5.4%), bradycardia (3.3%), first-degree AV block (3.3%), dizziness (3.0%), edema (2.6%), asthenia (1.8%), and ECG abnormality (1.6%).

Experience with use of CARDIZEM in combination with beta-blockers in patients with impaired ventricular function is limited. Available data are not sufficient to predict the effects of concomitant treatment with CARDIZEM CD and beta-blockers in patients with left ventricular dysfunction of cardiac conduction abnormalities. Caution should be exercised when using this combination. (See Warnings and Precautions in prescribing information.)

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Please see brief summary of prescribing information on adjacent page.