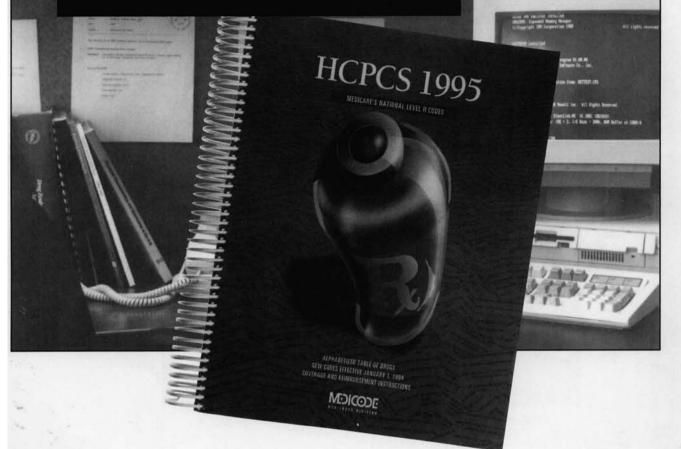
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ARCHIVES

OF FAMILY MEDICINE

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Conclusion: These results suggest possible benefit to the control of glycemia with respect to death due to vascular disease and diabetes.

(1994;154:2473-2479) Scot E. Moss, MA, et al. Reprint requests to Ronald Klein, MD, Department of Ophthalmology and Visual Sciences, University of Wisonsin-Madison, 600 Highland Ave, F4/336 CSC, Madison, WI 53792-3220.

ARCHIVES OF NEUROLOGY

Pregnancy and Multiple Sclerosis: A Prospective Study

Objective: To conduct a prospective assessment of pregnancy on women with multiple sclerosis (MS), focusing on pregnancy outcome and relapses during gestation and up to 6 months after delivery.

Design: Expected numbers of relapses were based on data for (1) "self-controls": the mothers ("cases") them-

selves prior to becoming pregnant and (2) "matched controls": female patients with MS "matched" to the mothers for year of birth, age of MS onset, MS type, MS course, and initial MS symptom(s).

Setting: Cases and controls were identified from an ambulatory care MS clinic that serves the province of British Columbia, Canada.

Patients or Other Participants: Women with a diagnosis of MS who attended the MS clinic during 1982 through 1986 and subsequently became pregnant during 1982 through 1989 inclusive were included in the study as cases. Matched controls were women with MS who attended the MS clinic during the same period but did not become pregnant.

Results: No significant increase in relapse rate was found for cases during the first two trimesters of gestation. The number of relapses was significantly less than expected during the third trimester compared with matched controls (χ^2 =6.80, *df*=1, *P*<.02), but not compared with self-controls (χ^2 =3.39, *df*=1, *P*>.05). The observed number of relapses for the 6 months after delivery did not differ significantly from expected (self-controls: χ^2 =2.84, *df*=2, *P*>.05; matched controls: χ^2 =1.76, *df*=2, *P*>.05).

Conclusion: These data suggest that neither pregnancy nor the 6-month period after delivery is a risk factor for relapse in MS. They are consistent with previous observations that, in the long term, pregnancy does not influence subsequent MS disability.

(1994;51:1120-1124) A. Dezza Sadovnick, PhD, et al, Department of Medical Genetics, University of British Columbia, Room 226, 6174 University Blvd, Vancouver, British Columbia, Canada V6T 1Z3.

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Effective relief with a low incidence of peptic ulcer*



Turn everyday challenges into

*GI symptoms comparable to other NSAIDs, including diarrhea, dyspepsia, and abdominal pain. In patients treated chronically with NSAID therapy, serious GI toxicity such as perforation, ulceration, and bleeding can occur.

As with other NSAIDs, rare renal and hepatic reactions have been reported. Please see precautions section of prescribing information.

Contraindicated in patients who are hypersensitive to aspirin or other NSAIDs.

Please see brief summary of prescribing information on adjacent page.



RELAFEN

brand of nabumetone

Brief Summary: Consult full prescribing information before using

CLINICAL PHARMACOLOGY: Relaten 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

In controlled clinical trials involving 1.677 patients treated with *Relation* (1,140 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), 0.1%, 0.9%) at two years. Inform patients of the signs and symptoms of serious G1. toxicity and what steps to take if they occur. In patients with active peptic ulcer, weigh the benefits of *Relaten* theray against possible hazards, institute an appropriate ulcer treatment regimen and monitor the patients'

In considering the use of relatively large doses (within the recommended dosage range), anticipate benefit sufficient to offset the potential increased risk of G.1 toxicity.

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 clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilis, rash, etc.), discontinue *Relaten* tuse *Relaten* cautiously in patients with severe hepatic impairment

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

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

Physicians may wish to discuss with their patients the potential risks (see WARNINGS, PRECAUTIONS and ADVERSE REACTIONS) and likely benefits of NSAID treatment, particularly when the drugs are used for less 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, nabumetone had no statistically significant tumorigenic effect. Nabumetone did not show mutagenic potential in the Ames test and mouse micronucleus test in wine. However, nabumetone and BGMNA-treated lymphocytes in culture showed chromosomal aberrations at 80 mcg/mL and higher concentrations (aqual 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.

Prephancy Category C: Natureton di on tot tenser nas vesies dany at coses or soci may agruag protect meang. Prephancy Category C: Natureton di on tot uses any treatogenic 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 and in rabbits higher dosse (equal to the average human exposure to BMNA at the maximum recommended human dose). There are no adequate, well-controlled studies in pregnant women. Use the drug during pregnancy only if clearly needd. Because of the known effect of prostagiandin-synthesis-inhibiting drugs on the human fetal cardiovascular system (closure of ductus arteriosus), use of *Relaten* during the third trimester of pregnancy is not recommended.

The effects of *Relatence* 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 naturnetone or its metabolites are excreted in human milk, however, 6MNA is excreted in the milk of lactating rats. Because of the possible adverse effects of prostaglandin-synthesis-inhibiting drugs on neonates, *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 nones. 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 21%—Probably Causally Related—Diarrhea (14%), dyspepsia (13%), abdominal pain (12%), constipation*, flatulence*, nausea*, positive stool guaiac*, dry mouth, gastritis, stomatitis, vomiting, dizzness*, heedache*, tatigue, increased sweating, insomnia, nervousness, somnolence, pruritus*, rash*, tinnius*, edema*

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

Incidence of reporter reaction retention and an experimental and an experimental and an experimental incidence of the participation of

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

One overdose occurred in a 17-year-old female patient who had a history of abdominal pain and was hospitalized for increased abdominal pain following ingestion of 30 *Platlen* tablets (15 grams total). Stools were negative for occult blood and there was no fail in serum hemoglobin concentration. The patient had no other symptoms. She was given an H₂-receptor antagonist and discharged from the hospital without sequelae.

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

HOW SUPPLIED: 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 lintended 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

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

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But you faced fatality. And felt relief: you'd earned at last an honorable discharge from your losing side; had no more need for a point to it all.

Still, from shame, you cloaked your thankfulness; feigned the good fight, shammed your compliance with our pills (care's give-and-take conspiracy).

Amid secret tastings of deathday as birthday, you scraped a last laurel for your sidelined life by dousing all your years' candles with your final blow.

> John Graham-Pole, MD, MRCP University of Florida College of Medicine Gainesville

INTRODUCING

BRONTEX

THE COUGH LIQUIDATOR

FROM THE MAKERS OF ENTEX® PRODUCTS

FEWER COUGHS, WETTER COUGHS Please see brief summary of prescribing information on next page.

Cough relief designed to make remaining coughs more productive.

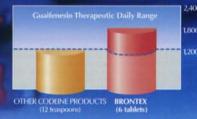
Now, help relieve dry, hacking coughs and make the most of remaining coughs with new Brontex—the codeine formula with the most guaifenesin.

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NEW

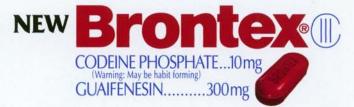
Only Brontex exceeds the minimum therapeutic requirements for guaifenesin. Unlike other codeine brands, new Brontex, with its convenient dosing regimen, reaches well into the daily therapeutic range for



2,400 mg guaifenesin (1,200 mg to 2,400 mg) set by 1800 mg federal guidelines.

> Now for dry, unproductive coughs, there's new Brontex—the codeine cough formula with the most guaifenesin.

FROM THE MAKERS OF ENTEX® PRODUCTS



Cough relief designed to make remaining coughs more productive

Up to 3 times more guaifenesin than other codeine brands

Exceeds the minimum therapeutic requirements for guaifenesin set by federal guidelines

FEWER COUGHS, WETTER COUGHS

Codeine may cause sedation and have additive sedative effects with other CNS depressants. * Recommended dosing for most codeine/guaifenesin products is two teaspoons every four hours

Brontex®

e phosphate/guaifenesin) tablets

DESCRIPTION: Each Brontex® tablet and 4 teaspoonfuls (20 mL) of Brontex liquid contains codeine phosphate. ...10 mg

Warning — May be habit forming guaifenesin.

INDICATIONS AND USAGE: Temporarily relieves cough due to minor throat and bronchial irritation as may occur with a cold, or inhaled irritants. Helps loosen phlegm (mucus) and thin bronchial secretions to rid the bronchial passageways

or bonnersome mucus. CONTRAINDICATIONS: Brontex tablets are contraindicated in patients with known hypersensitivity to any of its ingredi-ents. Brontex tablets are contraindicated for use in patients with asthma. WARNINGS: Codeine is not recommended for use in children under 2 years of age. Children under 2 years may be more susceptible to the respiratory depresant effects of codeine, including respiratory arrest, coma, and death. PRECAUTIONS: General: Codeine should be used with extreme caution in patients with severe CNS depression, respi-

Proceedings on the provide structure should be used with externe caution in patients with selfer CVS objects(0), respin-tatory depression, or those prone to respiratory depression, acute alcoholism, chronic putmonary disease and those with substantially decreased respiratory reserve. Codeine should be administered with caution in patients with acute abdom-inal conditions, convulsive disorders, significant hepatic or renal impairment, fever, hypothyroidism, Addison's disease, ulcerative colitis, prostatic hypertrophy, in patients with recent gastrointestinal or urinary tract surgery, and in the very young or elderly or debilitated patients. Administration of codeine may be accompanied by histamine release and should be used with caution in children with atom.

children with atopy. Dosage of codeline should not be increased if cough fails to respond; an unresponsive cough should be reevaluated in 5

days or sooner for possible underlying pathology, such as foreign body or lower respiratory tract disease Codeine may cause or aggravate constituation. Hypotensive Effects: Codeine may produce hypotension in ambulatory patients.

Hypotensive Effects: Codeine may produce hypotension in ambulatory patients. Head Injury and Increased Intracranial Pressure: The risk of respiratory depression and elevation of cerebrospinal fluid pressure is increased by opiate agonists, including codeine, in the presence of head injury, intracranial lesions, or a pre-existing increase in intracranial pressure. They also may produce adverse reactions such as sedation and pupilary changes which may obscure the chinical course of patients with head injuries. Respiratory Conditions with Productive Couph or Chronic Respiratory Disease: The risks and benefits of opiate agonists or couph suppressants, including codeine, should be carefully considered in illness associated with productive couph or in chronic respiratory disease where interference with ability to clear the tracheobronchial tree of secretions would have a dele-terious effect on the natient's respiratory for the context of the

chronic respiratory disease where interference with ability to clear the tracheobronchial tree of secretions would have a dele-terious effect on the patient's respiratory function. Information for Patients: Brontex tablets may cause marked drowsiness or may impair the mental and/or physical abilities required for the performance of potentially hazardous tasks, such as driving a vehicle or operating machinery. Ambulatory patients should be told to avoid engaging in such activities until it is known that they do not become drowsy or dizzy from Brontex tablets. Children should be supervised to avoid potential harm in bike riding or in other hazardous activities. The concomitant use of alcohol or other central nervous system depressants, including opiate agonists, sedatives, hyp-notics, and tranquilizers, may have an additive effect and should be avoided or their dosage reduced. Codeine, like other opiate agonists, may produce orthostatic hypotension in some ambulatory patients. Patients should be

Codeine, like other opiate agonists, may produce orthostatic hypotension in some ambulatory patients. Patients should be cautioned accordingly. Drug Interactions: Caution should be used when taking this product with CNS depressants including alcohol, sedatives, tranquilizers and drugs used for depression, especially monoamine oxidase inhibitors (MAOIs). These combinations may cause greater sedation than is caused by the products used alone. Drug/Laboratory Test Interactions: Guaifenesin has been reported to interfere with clinical laboratory determinations of urinary 5-hydroxyindoleacetic adi (5-HIAA) and urinary vanillymandelic acid (VMA). Because opiate agonists may increase bilary tract pressure, with resultant increases in plasma amytase or lipase levels, determination of these enzyme levels may be unreliable for 24 hours after an opiate agonist has been given. Carcinogenesis, Mutagenesis, Impairment of Fertility: Studies with Brontex tablets in animals to evaluate carcinogenic, mutagneic, or impairment of Irettility potential have not been conducted. Studies conducted by the National Toxicology Pronzam with codine in rats and mice to evaluate its carcinogenic potential are in progress.

Program with codeine in rats and mice to evaluate its carcinogenic potential are in progress

Pregnancy: Teregnancy: Teratogenic Effects: Pregnancy Category C. Animal reproduction studies have not been conducted with Brontex tablets. It is also not known whether Brontex tablets can cause fetal harm when administered to a pregnant woman or can affect repro-duction capacity. Brontex tablets should be given to a pregnant woman only if clearly needed. Studies with codeine in harmsters and mice to evaluate its developmental toxicity potential have been reported by the National Toxicology Program. Codeine produced a decrease in mean fetal weight in both harmsters and mice, but did not produce structural malformations.

Nonteratogenic Effects: Dependence has been reported in newborns whose mothers took opiates regularly during preg-nancy. Signs of withdrawal include irritability, excessive crying, tremors, hyperreflexia, fever, vomiting, and diarrhea. These

Brontex® (codeine phosphate/guaifenesin) tablets

Bromex² (couline phosphate/guarenesin) radies signs usually disapper during the first few days of tile. Labor and Delivery: Use should be avoided during labor and delivery. Opiates cross the placental barrier. The closer to delivery and the larger the dose used, the greater the possibility of respiratory depression in the newborn. If the mother received opiates during labor, the newborn should be closely observed for signs of respiratory depression. Resuscitation, and in severe cases, naloxone may be required. Codeline may also prolong labor. Nursing Mothers: Codeline is excreted in breast milk in amounts that are probably insignificant when given at usual thera-peutic dose. It is not known whether guaitenesin is excreted in breast milk. Caution should be exercised when Brontex tablets are administered to a nursing mother. The possibility of clinically important amounts of codeline being excreted in breast milk in individuals abusing codeline should be considered. Pediatric Use: Brontex tablets are not recommended for use in children below the age of 12 years. Brontex liquid is not recommended for use in children helow the age of for years.

ded for use in children below the age of 6 years. ADVERSE REACTIONS:

Nervous System: CNS depression, particularly respiratory depression, light-headedness, dizziness, sedation, euphoria, dysphoria, headache, transient hallucination, disorientation, visual disturbances, and convulsions. Cardiovascular: Tachycardia, bradycardia, palpitation, faintness, syncope, orthostatic hypotension (common to opiate

Gardinaction, responses, and includance dependence of the second has been reported.

has been reported. **Genitourinary**: Oliguria and urinary retention; antidiuretic effect has been reported (common to opiate agonists). **Allergic:** Infrequent pruritus, urticaria, angioneurotic edema, laryngeal edema, and rare anaphylactic reaction. **Other:** Flushing of the face, sweating, and weakness. **DRUG ABUSE: AND OPENDENCE:** Brontex tablets are a Schedule III Controlled Substance. Brontex liquid is a Schedule V

controlled substance. Codeine is known to be subject to abuse; however, the abuse potential of oral codeine is lower than that of most other opi-

ate agonists because of its lower potency at the apeutic does. However, codeine must be administered only under close supervision to patients with a history of drug abuse or dependence. Psychological dependence, physical dependence, and tolerance are known to occur with codeine.

OVERDOSAGE:

OVERDOŠAGE: Signs and Symptoms: Serious overdose with codeine is characterized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or coma, miosis (mydriasis may occur in terminal necrosis or hypoxia), skeletal muscle flaccidity, cold and clammy skin, and some-times bradycardia and hypotension. In severe overdosage, apnea, circulatory collapse, cardiac arrest and death may occur. Treatment: The treatment of overdosage should provide symptomatic and supportive care. Primary attention should be given to the reestablishment of adequate respiratory exchange through provision of a patent airway and the institution of assisted or controlled ventilation as necessary. The narcotic antagonister, including codeine. Therefore, an appropriate dose of naloxone hydrochloride (see package inset) may be administered, preferably by the intravenous route, and simultaneously with efforts at respiratory resuscitation. Since the duration of a deceed that of the antagonist, the patient should be gatent is a needed to maintain adecuate respiration.

anagonist, the patient should be put funder communed surveinance and repeated does or the anagonist should be administered as needed to maintain adequate respiration. An antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression. Cycygen, intravenous fluids, vasopressors and other supportive measures should be employed as indicated. If the amount ingested is considered dangerous or excessive, induce vomiting with ipecac syrup unless the patient is corvulsing, comatose, or has lost the gag reflex, in which case perform gastric lavage using a large-bore tube. If indi-cated, follow with activated charcoal and a saline cathartic.

cated, follow with activated charcoal and a saline cathartic. DOSAGE AND ADMINISTRATION: Adults and children 12 years of age and older: one tablet every 4 hours. Brontex tablets are not recommended for children under 12 years of age. Liquid: Adults and children 12 years of age and older: 4 teaspoonfuls every 4 hours. Children 6 to under 12 years of age: 2 teaspoonfuls every 4 hours.

age: 2 teaspoonfu HOW SUPPLIED:

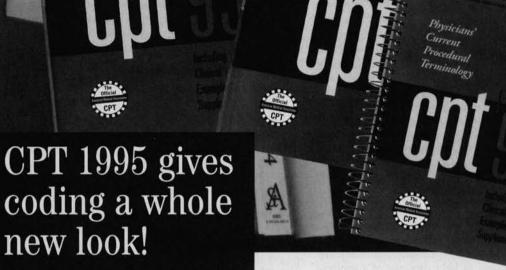
NOW SUPPLEU: Srontex tablets are available as a red, capsule-shaped tablet, embossed "BRONTEX". NDC 0149-0440-01 bottle of 100. Brontex liquid is available as NDC 0149-0441-16 1 pint (473 mL) bottle. Store at controlled room temperature (59°-86°F or 15°-30°C). CAUTION: Federal law prohibits dispensing without prescription.

Procter & Gamble Pharmaceuticals Cincinnati, Ohio 45202



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Brief Summary of Prescribing Information as of April 1993

CARDIZEM® CD (diltiazem HCI) Cansules

CONTRAINDICATIONS

CARDIZEN is 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 demon-strated hypersensitivity to the drug, and (5) patients with acute myocardial infarction and pulmonary congestion documented by x-ray on admission

WARNINGS

- WARNINGS
 Cardiac Conduction. CARDIZEM prolongs AV node retractory periods without significantly prolonging 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 developed periods of asystole (2 to 5 seconds) after a single dose of 60 mg of diltiazem.
 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 nodex or consistent negative effects on contractility (dp/dt). An acute study of oral diltizarem in patients with impaired ventricular function (effect) in blowed 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. Ever ever event with the use of CARDIZEM (diltizaem hydrochoinde) in combination with beta-blockers in patients with impaired ventricular function. Ever event event function is limited. Caution should be exercised when using this combination.
 Hypotension. Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension.
- 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 requently resolved even with continued dilitazem treatment. In rare instances, significant elevations in enzymes such as alkaline phosphatase, LDH, SGOT, SGPT, and other phenomena consistent with acute hepatic injury have been noted. These reactions tended to occur early after therapy initiation (1 to 8 weeks) and 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 (dittiazem 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 doess of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats ware associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes; however, these changes were reversible with entitioned dosing. continued dosing.

Committee 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 extoliative dermatitis have also been infrequently reported. Should a dermatologic reaction persist, the drug should be discontinued.

Drug Interactions

also been infrequently reported. Should a dermatologic reaction persist, the drug should be discontinued. **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 protonging 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 under-goes biotransformation by cytochrome P-450 mixed function oxidase. Coadministration of CARDIZEM with other agents which tollow the same route of biotransformation may result in the competitive inhibition of metabolism. Especially in patients with renal and/or hepatic impairment, dosages of similarly metabolized drugs, particularly those of low therapeutic ratio, may require adjustment when starting or stopping concomitantly administered dilti-azem to maintain optimum therapeutic blood 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 ahormaillies. Administration of CARDIZEM (diltiazem hydrochioride) concomitantly with propranolol in five normal volunteers resulted in increased propranolol appears to be displaced from its binding sites by diltizem. If combination therapy is initiated or withdrawn in conjunction with propranolol, an adjustment in the propranolol does may be warranted. (See WARNINGS.) **Cimetidine**. A study in six healthy volunteers has shown a significant increase in peak diltizem plasma levels (58%) and area-under-the-curve (53%) after a 1-week course of cimetidine at 1200 mg er day and a single

dose may be warranted. Digitalis: Administration of CARDIZEM with digoxin in 24 healthy male subjects increased plasma digoxin concen-trations approximately 20%. Another investigator found no increase in digoxin levels in 12 patients with coronary artery disease. Since there have been conflicting results regarding the effect of digoxin levels, it is recommended that digoxin levels be monitored when initiating, adjusting, and discontinuing CARDIZEM therapy to avoid possible over- or under-digitalization. (See WARNINGS.) Anesthetics. The depression of cardiac contractility, conductivity, and automaticity as well as the vascular dilation associated with anesthetics may be potentiated by calcium channel blockers. When used concomitantly, and the expression of cardiac contractility conductivity.

anesthetics and calcium blockers should be titrated carefully. Cyclosporine. A pharmacokinetic interaction between dilitazem 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 dilitazem. If these agents are to be administered concurrently, cyclosporine concentrations should be monitored, especially when dilitazem with earbamazepine 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.

CVM94013001

<u>Carcinogenesis. Mutagenesis. Impairment of Fertility</u> 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 vitro in a bracteria. 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.

x

Cardizem CD

Start with one

180-mg capsule daily

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 perinatal/postnatal studies, there was an increased incidence of stillbirths 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 potential benefit justifies the potential risk to the fetus. <u>Nursing Mothers</u>

Dilfiazem is excreted in human milk. One report suggests that concentrations in breast milk may approxi-mate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should he instituted

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

ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but 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 narison

CARDIZEM CD Capsule Placebo-Controlled

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

S200 patients, the flost common events (ie, greater final +5) were exemina (4.6%), inaduatite (4.6%), auziness (3.5%), asthenia (2.8%), 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 trials: **Cardiovascular**: Angina, arrhythmia, AV block (second- or third-degree), bundle branch block, congestive heart failure, ECG abnormalities, hypotension, palpitations, syncope, tachycardia, ventricular extrasystoles **Nervous** System: Abnormal dreams, amesia, depression, gait abnormality, hallucinations, insomnia, nervous-ness, paresthesia, personality change, somnolence, tinnitus, tremor **Gastrointestinal**: Anorexia, constpation, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGOT, SGPT, LDH, and alkaline phosphatase (see hepatic warnings), thirst, vomiting, weight increase **Dermatological**: Petechiae, photosensitivity, pruritus, uritaria **Other**: Ambiyopia, CPK increase, dyspena, epistaxis, eye irritation, hyperglycemia, hyperuricemia, impotence, muscle cramps, nasal congestion, nocturia, osteoarticular pain, polyuria, sevual difficulties The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia, erythema multiforme, extolative dermatitis, extragyramidal symptoms, ginjival hyperplasia, hemolytic anemia, increased bleeding time, leukopenia, purpura, retinopathy, and thrombocytopenia. In addition, events such as myocardial 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, characterized as leukocyto-clastic vasculitis, have been reported. However, a definitive cause and effect relationship between these events and CARDIZEM therapy is yet to be established. CARDIZEM therapy is yet to be established.

Prescribing Information as of April 1993

Marion Merrell Dow Inc Kansas City, MO 64114

ccdb0493a

References: 1. Cardizem CD prescribing information. 2. Data on file, Marion Merrell Dow Inc.





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

4-Hour Control

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A unique hemodynamic and safety profile for hypertension or angina^{1,2}

A side-effect discontinuation rate comparable to placebo in both hypertension and angina trials²

Most commonly reported side effects are headache (5.4%), bradycardia (3.3%), first-degree AV block (3.3%), dizziness (3.0%), edema (2.6%), ECG abnormality (1.6%), and asthenia (1.8%)¹

Please see brief summary of prescribing information on adjacent page.

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