INTRODUCING DIFLUCAN® (FLUCONAZOLE) 150 MG



- † Two open-label, multicenter, randomized trials comparing a single oral Diflucan tablet (150 mg) with either 2% miconazole cream (100 mg) once nightly for 7 days or clotrimazole vaginal tablets (100 mg) once nightly for 7 days in 870 women with vaginal yeast infection due to Candida. Clinical cure: complete resolution of signs and symptoms present at the initial assessment; mycologic cure: negative results from both vaginal fungal culture and KOH preparation.
- Results of two open, multicenter studies of single-dose Diflucan (150 mg) in 188 and 180 women, respectively, with vaginal yeast infections. Patients responding to treatment were asked to estimate times from start of therapy to onset of relief and to complete relief.
- \$ Wholesale acquisition cost (WAC) provided by Medi-Span®, July 1994. WAC may not necessarily reflect actual pharmacy or out-of-pocket costs. In studies of Diflucan, the clinical and mycologic cure rates in the fluconazole group were comparable with those of the vaginal product group (clotrimazole and miconazole). WAC includes Gyne-Lotrimin® (a registered trademark of Schering-Plough Corp); and Terazol® and Monistat® 7 (both registered trademarks of Ortho Pharmaceutical Corp).

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

THE ONLY ORAL ONE-DOSE CURE FOR MOST VAGINAL YEAST* INFECTIONS

GREAT NEWS FOR WOMEN IS HERE

Clinical and mycologic cure comparable with 7-day topicals in two separate trials—
One oral Diflucan 150-mg tablet has been shown to be as effective as
7 nights of 2% miconazole cream (100 mg) or 7 nights of clotrimazole vaginal tablets (100 mg).^{1†}

Early symptom relief—In two additional studies of 368 women taking Diflucan, median time to start of symptom relief was 1 day (range: 0.04 to 10 days) and 2 days (range: 0.5 to 20 days) to complete relief.^{1-3 ‡}

Patients may require reevaluation should symptoms not improve within 3 to 5 days.

Established safety experience—More than 9 million patient days of therapy at the 150-mg dose worldwide. In US clinical trials with 870 women, the most common side effects with Diflucan were headache (13%), nausea (7%), and abdominal pain (6%).

Patients respond to one-dose oral convenience

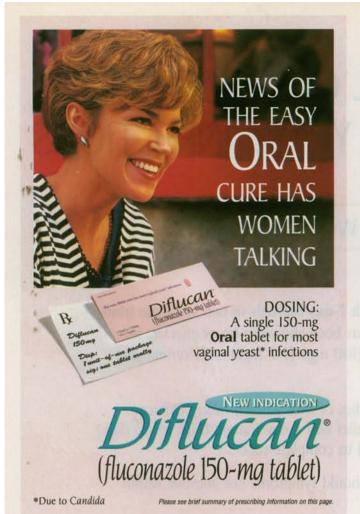
Easy to take—Diflucan can be taken anytime, anywhere, day or night, with or without food.

Less expensive—Diflucan provides full-course therapy that costs less than leading prescription and most OTC products. 18

*Due to Candida



THE EASY ORAL CURE



References: 1. Data on file. Pfizer Inc. 2. A comparison of single-dose oral fluconazole with 3-day intravaginal clotrimazole in the treatment of vaginal candidiasis: report of an international multicentre trial. Br J Obstet Gynecol. 1989;96:226-232. 3. Treatment of vaginal candidiasis with a single oral dose of fluconazole. Eur J Clin Microbiol Infect Dis. 1988;7:364-367.

DIFLUCAN BRIEF SUMMARY FOR VAGINAL CANDIDIASIS

INDICATION

DIFLUCAN® (fluconazole 150-mg oral tablet) is indicated for the treatment of vaginal candidiasis (vaginal yeast infections due to *Candida*).

CONTRAINDICATIONS

DIFLUCAN (fluconazole) is contraindicated in patients who have shown hypersensitivity to fluconazole or to any of its excipients. There is no information regarding cross hypersensitivity between fluconazole and other azole antifungal agents. Caution should be used in prescribing DIFLUCAN to patients with hypersensitivity to other azoles.

WARNINGS

(1) Hepatic injury: DIFLUCAN has been associated with rare cases of serious hepatic toxicity, including fatalities primarily in patients with serious underlying medical conditions. In cases of DIFLUCAN associated hepatotoxicity, no obvious relationship to total daily dose, duration of therapy, sex or age of the patient has been observed. Patients who develop abnormal liver function tests during DIFLUCAN therapy should be monitored for the development of more severe hepatic injury.

(2) Anaphylaxis: In rare cases, anaphylaxis has been reported.

(3) Dermatologic: Patients have rarely developed exfoliative skin disorders during treatment with DIFLUCAN. Patients who develop rashes during treatment with DIFLUCAN should be monitored closely.

PRECAUTIONS

The convenience and efficacy of the single-dose oral tablet of fluconazole regimen for the treatment of vaginal yeast infections should be weighed against the acceptability of a higher incidence of drug related adverse events with DIFLUCAN (26%) versus topical agents (16%) in U.S. comparative clinical studies (See Adverse Reactions.)

Drug Interactions

Clinically significant hypoglycemia may be precipitated by the use of DIFLUCAN with oral hypoglycemic agents; one fatality has been reported from hypoglycemia in association with combined DIFLUCAN and glyburide use. DIFLUCAN reduces the metabolism of tolbutamide, glyburide, and glipizide and increases the plasma concentration of these agents. When DIFLUCAN is used concomitantly with these or other sulfonylurea oral hypoglycemic agents, blood glucose concentrations should be carefully monitored and the dose of the sulfonylurea should be adjusted as necessary.

Prothrombin time may be increased in patients receiving concomitant DIFLUCAN and coumarintype anticoagulants. Careful monitoring of prothrombin time in patients receiving DIFLUCAN and coumarin-type anticoagulants is recommended.

DIFLUCAN increases the plasma concentrations of phenytoin. Careful monitoring of phenytoin concentrations in patients receiving DIFLUCAN and phenytoin is recommended.

DIFLUCAN may significantly increase cyclosporine levels in renal transplant patients with or without renal impairment. Careful monitoring of cyclosporine concentrations and serum creatinine is recommended in patients receiving DIFLUCAN and cyclosporine.

Rifampin enhances the metabolism of concurrently administered DIFLUCAN. Depending on clinical circumstances, consideration should be given to increasing the dose of DIFLUCAN when it is administered with rifampin.

DIFLUCAN increased the serum concentrations of theophylline. Careful monitoring of serum theophylline concentrations in patients receiving DIFLUCAN and theophylline is recommended.

Because of the occurrence of serious cardiac dysrhythmias in patients receiving other azole antifungals in conjunction with terfenadine, an interaction study has been performed, and failed to demonstrate a clinically significant drug interaction. Although these events have not been observed in patients receiving DIFLUCAN, the co-administration of DIFLUCAN and terfenadine should be carefully monitored.

Fluconazole tablets coadministered with ethinyl estradiol- and levonorgestrel-containing oral contraceptives produced an overall mean increase in ethinyl estradiol and levonorgestrel levels: however, in some patients there were decreases up to 47% and 33% of ethinyl estradiol and levonorgestrel levels. The data presently available indicate that the decreases in some individual ethinyl estradiol and levonorgestrel AUC values with fluconazole treatment are likely the result of random variation. While there is evidence that fluconazole can inhibit the metabolism of ethinyl estradiol and levonorgestrel, there is no evidence that fluconazole is a net inducer of ethinyl estradiol or levonorgestrel metabolism. The clinical significance of these effects is presently unknown.

Physicians should be aware that interaction studies with medications other than those listed in the Clinical Pharmacology section have not been conducted, but such interactions may occur.

Carcinogenesis, Mutagenesis and Impairment of Fertility

Fluconazole showed no evidence of carcinogenic potential in mice and rats treated orally for 24 months at doses of 2.5, 5 or 10 mg/kg/day (approximately 2-7x the recommended human dose). Male rats treated with 5 and 10 mg/kg/day had an increased incidence of hepatocellular adenomas.

Fluconazole, with or without metabolic activation, was negative in tests for mutagenicity in 4 strains of *S. typhimurium*, and in the mouse lymphoma LS178Y system. Cytogenetic studies in vivo (murine bone marrow cells, following oral administration of fluconazole) and in vitro (human lymphocytes exposed to fluconazole at 1000 µg/mL) showed no evidence of chromosomal mutations.

Fluconazole did not affect the fertility of male or female rats treated orally with daily doses of 5, 10 or 20 mg/kg or with parenteral doses of 5, 25 or 75 mg/kg, although the onset of parturition was slightly delayed at 20 mg/kg p.o. In an intravenous perinatal study in rats at 5, 20 and 40 mg/kg, dystocia and prolongation of parturition were observed in a few dams at 20 mg/kg (approximately 5-15x the recommended human dose) and 40 mg/kg, but not at 5 mg/kg. The disturbances in parturition were reflected by a slight increase in the number of still-born pups and decrease of neonatal survival at these dose levels. The effects on parturition in rats are consistent with the species specific estrogen-lowering property produced by high doses of fluconazole. Such a hormone change has not been observed in women treated with fluconazole.

Pregnanc

Teratogenic Effects. Pregnancy Category C: Fluconazole was administered orally to pregnant rabbits during organogenesis in two studies, at 5, 10 and 20 mg/kg, and at 5, 25, and 75 mg/kg respectively. Maternal weight gain was impaired at all dose levels, and abortions occurred at 75 mg/kg (approximately 20-60x the recommended human dose); no adverse fetal effects were detected. In several studies in which pregnant rats were treated orally with fluconazole during organogenesis, maternal weight gain was impaired and placental weights were increased at 25 mg/kg. There were no fetal effects at 5 or 10 mg/kg; increases in fetal anatomical variants (supernumerary ribs, renal pelvis dilation) and delays in ossification were observed at 25 and 50 mg/kg and higher doses. At doses ranging from 80 mg/kg (approximately 20-60x the recommended human dose) to 320 mg/kg embryolethality in rats was increased and fetal abnormalities included wayy ribs, cleft palate and abnormal cranio-facial ossification. These effects are consistent with the inhibition of estrogen synthesis in rats and may be a result of known effects of lowered estrogen on pregnancy, organogenesis and parturition.

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

Nursing Mothers

Fluconazole is secreted in human milk at concentrations similar to plasma. Therefore, the use of DIFLUCAN in nursing mothers is not recommended.

Pediatric Use

Efficacy of DIFLUCAN has not been established in children. A small number of patients from age 3 to 13 years have been treated safely with DIFLUCAN using doses of 3-6 mg/kg daily.

The safety and effectiveness of DIFLUCAN ISO mg tablets in the treatment of vaginal candidiasis in patients under 18 years of age have not been established.

ADVERSE REACTIONS

In patients receiving a single dose for vaginal candidiasis.

During comparative clinical studies conducted in the United States, 448 patients with vaginal candidiasis were treated with DIFLUCAN, ISO mg single dose. The overall incidence of side effects possibly related to DIFLUCAN was 26%. In 422 patients receiving active comparative agents, the incidence was 16%. The most common treatment-related adverse events reported in the patients who received ISO mg single dose fluconazole for vaginitis were headache (13%), nausea (7%) and abdominal pain (6%). Other side effects reported with an incidence equal to or greater than 1% included diarrhea (3%), dyspepsia (1%), dizziness (1%), and taste perversion (1%). Most of the reported side effects were mild to moderate in severity. Rarely, angioedema and anaphylactic reaction have been reported in marketing experience.



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DDAYP® Nasal Spray (desmopressin acetate) 5mL

BRIEF SUMMARY

CONTRAINDICATION: Known hypersensitivity to DDAVP Nasal Spray WARNINGS:

For intranasal use onl

1. For intransasi use only.
2. In very young and elderly patients in particular, fluid intake should be adjusted downward in order to decrease the potential occurrence of water intoxication and hyponatremia. Particular attention should be paid to the possibility of the rare occurrence of an extreme decrease in plasma osmolality that may result in seizures which could lead to coma.

potential occurrence of water intoxication and hyponatremia. Particular attention should be paid to the possibility of the rare occurrence of an extreme decrease in plasma osmolality that may result in seizures which could lead to coma.
PRECAUTIONS:

General: DDAVP Nasal Spray at high dosage has infrequently produced a slight elevation of blood pressure, which disappeared with a reduction in dosage. The drug should be used with caution in patients with coronary artery insufficiency and/or hypertensive cardiovascular disease because of possible rise in blood pressure.
DDAVP Nasal Spray should be used with caution in patients with conditions associated with fluid and electrolyte imbalance, such as cystic fibrosis, because these patients are prone to hyponatremia.
Rare severe altergic reactions have been reported with DDAVP. Anaphylaxis has been reported with intravenous administration of DDAVP Injection, but not with DDAVP. Anaphylaxis has been reported with intravenous administration of DDAVP Injection, but not with DDAVP hasal Spray is used intranasally, changes in the nasal mucosa such as scarring, edema, or other disease may cause erratic, unreliable absorption in which case DDAVP Nasal Spray should not be used. For such situations, DDAVP Nasal Spray is used intranasally, changes in the nasal mucosa should not be used. For such situations, DDAVP hasal should be considered.

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

Information for Patients: Patients should be informed that the bottle accurately delivers 50 doses of 10 mcg each. Any solution remaining after 50 doses should be indeed since the amount delivered thereafter may be substantially essential to may be substantially results to the patient of the patient with central cranial diabetes insipidus or pos

Carcinogenesis, Mutagenesis, Impairment of Fertility: Teratology studies in rats have shown no abnormalities. No

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

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

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

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

Central Cranial Diabetes Insipidus: DDAVP Nasal Spray has been used in children with diabetes insipidus: Use in infants and children will require careful fluid intake restriction to prevent possible hyponatremia and water intoxication. The dose must be individually adjusted to the patient with attention in the very young to the danger of an extreme decrease in plasma osmolability w

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

DDAVP

| | PLACEBO (N=59) | 20 mcg (N=60) | 40 mcg (N=61) |
|-------------------------------------|---|------------------|------------------|
| ADVERSE REACTION BODY AS A WHOLE | 36 | % | 00 |
| Abdominal Pain | 0 | 2 | 2 |
| Asthenia | 0 | 0 0 2 | 2 |
| Chills | 0 | 0 | 2 |
| Headache | 0 | 2 | 5 |
| Throat Pain | 2 | 0 | 0 |
| NERVOUS SYSTEM | | | |
| Depression | 2 | 0 | 0 |
| Dizziness | 0 | 0 | 3 |
| RESPIRATORY SYSTEM | | | |
| Epistaxis | 2 | 3 2 0 8 | 0 |
| Nostrii Pain | 0 | 2 | 0 |
| Respiratory Infection | 2 | 0 | 0 |
| Rhinitis | 2 | 8 | 3 |
| CARDIOVASCULAR SYSTEM | IONIE MITTE | | |
| Vasodilation | 2 | 0 | 0 |
| DIGESTIVE SYSTEM | | 120 | 2 |
| Gastrointestinal Disorder | 0 | 2 | 0 |
| Nausea | 0 | 0 | 2 |
| SKIN & APPENDAGES | A STATE OF THE OWNER, WHEN PARTY AND PARTY. | | |
| Leg Rash | 2 | 0 | 0 |
| Rash | 2 | 0 | U |
| SPECIAL SENSES | | 0 | 0.4 |
| Conjunctivitis | 0 | 2 | 0 |
| Edema Eyes | 0 | 2 2 0 | 0 |
| Lachrymation Disorder | 0 | U | 2 |

OVERDOSAGE: See adverse reactions above. In case of overdosage, the dose should be reduced, frequency of administration decreased, or the drug withdrawn according to the severity of the condition. There is no known specific antidote for DDAVP Nasal Spray.

An oral LDso has not been established. An intravenous dose of 2 mg/kg in mice demonstrated no effect.

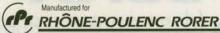
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REFERENCES: 1. Rittig S, Knudsen UB, Sørensen S: Long-term double-blind cross-over study of desmopressin intranasal spray in the management of nocturnal enuresis. In Meadow SR, ed. Desmopressin in Nocturnal Enuresis: Proceedings of an international symposium. England: Horus Medical Publications; 1988:43-54. 2. Miller K, Klauber GT: Desmopressin and international symposium. England: Horus Medical Publications; 1988:43-54. 2. Miller K, Klauber GT: Desmopressin and the management of nocturnal enuresis. Clin Ther 1990;12(4):357-366.

3. Aladjem M, Wohl R, Bolichis H, et al: Desmopressin in nocturnal enuresis. Arch Dis Child 1982;57:137-140.

4. Bloom DA: The American experience with desmopressin. Clin Pediatr July 1933; Special Edition:28-31.



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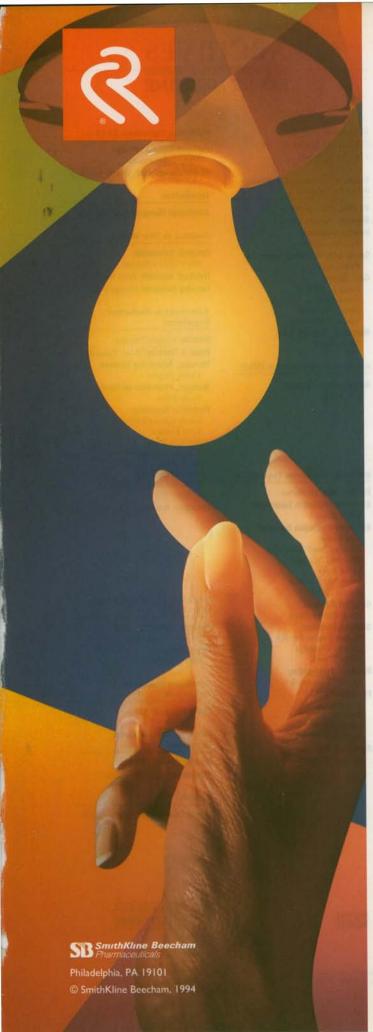
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October 11, 1994

ONCE-A-DAY

CARDIZEM CD

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

N HYPERTENSION OR ANGINA



IN HYPERTENSION OR ANGINA

CARDIZEM® CD (diltiazem HCI)

FER EFFETIVE 24-HOUR BONTROL



HEMODYNAMIC EFFECTS

In hypertension¹

- The magnitude of blood pressure reduction is related to the degree of hypertension
- Low incidence of vasodilatory side effects
- No reflex tachycardia is associated with chronic antihypertensive effects

In angina¹

- Potent dilator of coronary arteries* and reduces vasospasm
- Appropriate decrease in heart rate with a low incidence (<1%)
 of reflex tachycardia
- Little or no negative inotropic effect in patients with normal ventricular function[†]

WELL-TOLERATED CONTROL REGARDLESS OF AGE OR GENDER[‡]

- 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
- * Demonstrated in patients with vasospastic angina.
- † See Warnings and Clinical Pharmacology sections in prescribing information.
- ‡ In clinical trials with Cardizem CD.

Please see brief summary of prescribing information on next page.



FOR HYPERTENSION OR ANGINA

Cardizem CD Start with one 180-mg capsule daily

HYPERTENSION OR ANGINA

Brief Summary of Prescribing Information as of April 1993

CARDIZEM® CD (diltiazem HCI) Capsules

CONTRAINDICATIONS

CARDIZEM 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 demonstrated hypersensitivity to the drug, and (5) patients with acute myocardial infarction and pulmonary congestion. documented by x-ray on admission

WARNINGS

- WARNINGS

 1. Cardiac Conduction. CARDIZEM prolongs AV node refractory 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 dilitiazem 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 dilitiazem.

 2. Congestive Heart Failure. Although dilitiazem 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 dilitiazem in patients with impaired ventricular function (epice) 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 (dilitiazem hydrocthoride) in combination with beta-blockers in patients with impaired ventricular function. Experience with the use of CARDIZEM (dilitiazem hydrocthoride) in combination with beta-blockers in patients with impaired ventricular function. Experience with the use of CARDIZEM (dilitiazem hydrocthoride) in combination with beta-blockers in patients with impaired ventricular function. Experience with the use of CARDIZEM (dilitiazem hydrocthoride) in combination with beta-blockers in patients with impaired ventricular function. Experience with the use of CARDIZEM (hydrochoride) in combination with beta-blockers in patients with impaired ventricular function. Experience with the use of CARDIZEM therapy may occasionally result in symptomatic hypotension.
- otomatic hypotension
- 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 diffusem treatment. In rare instances, significant elevations 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.)

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 doses of dilitazem were associated with hepatic damage, In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were 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 continued dosign. continued dosing.

commuted ussing.

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

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

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 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 ditiazem 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 abnormalities.

Administration of CARDIZEM (dilitizer mytdrochloride) concomitantly with propranolol in five normal volunteers resulted in increased propranolol appears to be displaced from its binding sites by dilitizem. If committed to 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 dilitizem plasma levels (58%) and area-under-the-curve (53%) after a 1-week course of cimetidine at 1200 mg per day and a single dose of dilitazem 60 mg. Ranitidine produced smaller, nonsignificant increases. The effect may be mediated by cimetidine's known inhibition of hepatic

in pharmacological effect when initiating and discontinuing therapy with cimetidine. An adjustment in the dilitiazem in pharmacological effect when initiating and discontinuing therapy with cimetidine. An adjustment in the dilitiazem of the administration of CARDIZEM with digoxin in 24 healthy male subjects increased plasma digoxin concentrations 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 WARNIMOS) Anaesthetics. 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, anesthetics and calcium blockers should be titrated carefully.

Cyclosporine. A pharmacokinetic interaction between dilitiazem and cyclosporine has been observed during studies involving 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 dilitiazem. It these agents are to be administered concurrently, cyclosporine concentrations should be monitored. especially when dilitiazem herapy is initiated, adjusted, or discontinued. The effect of cyclosporine concurrently should be monitored especially then dilitiazem 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. Mutagenesis. 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 vitro o

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

Nursing Mothers

Diltiazem 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 be 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 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% 3.3% 2.6% 1.6% | 5.0% 3.0% 1.3% 0.0% 1.3% 2.3% |

clinical trials of CARDIZEM CD capsules, CARDIZEM tablets, and CARDIZEM SR capsules involving over 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 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, amnesia, depression, galt abnormality, hallucinations, insomnia, nervousness, paresthesia, personality change, somnolence, tinnitus, tremor Gastrointestinal: Anorexia, constitution, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGOT, SGPT LDH and alkaling hospishates (see henatic varinges) thirst vomition, veinth increase.

SSGPT, LDH, and alkaline phosphatase (see hepatic warnings), thirst, vomiting, weight increase

Dermatological: Petechiae, photosensitivity, pruritus, urticaria

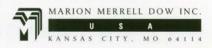
Other. Amblyopia, CPK increase, dyspnea, epistaxis, eye irritation, hyperglycemia, hyperuricemia, impotence, muscle cramps, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties

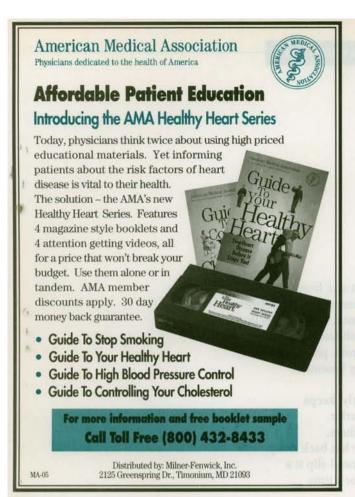
muscle cramps, nasal congestion, nocturia, osteoarticulair pain, polyuria, sexual difficulties
The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia,
erythema multiforme, exfoliative dermatitis, extrapyramidal symptoms, ginglival hyperplasia, hemolytic 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 leukocytoclastic vasculitis, have been reported. However, a definitive cause and effect relationship between these events and
CARDIZEM therapy is yet to be established.

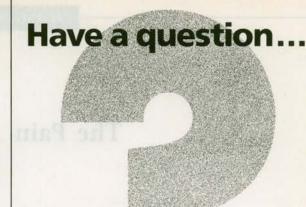
Prescribing Information as of April 1993

Marion Merrell Dow Inc Kansas City, MO 64114

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







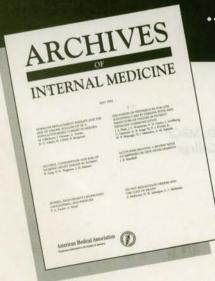
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A Little Means A Lot To The Older Hypertensive

Comparable antihypertensive efficacy to 2.5 mg1* with the safety profile of a lower once-daily dose

Favorable metabolic profile†-no adverse effect on lipids; only 2% incidence of clinical hypokalemia[‡]

Safe and effective for step-down therapy Side-effect profile compatible with other antihypertensive agents

LOZOL 1.25 mg once daily is now the recommended starting dose for indapamide in hypertension



LOZOL® (indapamide) 1.25 mg and 2.5 mg tablets BRIEF SUMMARY

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

CONTRAINDICATIONS: Anuria, hypersensitivity to indapamide or other

wARNINGS: Intrequent cases of severe hyponatremia, accompanied by hypokalemia, have been reported with 2.5 mg and 5.0 mg indapamide primarily in elderly females. Symptoms were reversed by electrolyte replenishment. Hyponatremia considered possibly clinically significant (<125 mEq.1) has not been observed in clinical trials with the 1.25 mg dosage (see PRECAUTIONS). Hypokalemia occurs commonly with diuretics (see ADVERSE REACTIONS, hypokalemia), and electrolyte monitoring is essential. In general, diuretics should not be given with lithium.

PRECAUTIONS: Perform serum electrolyte determinations at appropriate intervals PRECAUTIONS: Periorm serum electroyte determinations at appropriate intervals, especially in platents who are vomiting excessively or receiving parenteral fluids, in patients subject to electrolyte imbalance, or in patients on a salt-restricted diet. In addition, patients should be observed for clinical signs of fluid or electrolyte imbalance, such as hyponatremia, hypochloremic alkaloss, or hypokalemia. The risk of hypokalemia secondary to diuresis and natriuresis is increased with larger doses, with brisk diuresis, with severe cirrilosis, and with concomitant use of corticosteroids or ACTH. Interference with adequate oral intake of electrolytes will also contribute to hypokalemia. Phylokalemia are specific or accompanies the response of the best to hypokalemia.

or ACT in interference with adequate ord a milax of electrolyses will asso controlled to hypokalemia. Hypokalemia can sensitize or exaggerate the response of the heart to the toxic effects of digitalis, such as increased ventricular irritability. Diutional hyponatremia may occur in edematous patients, appropriate replacement is the treatment of choice. Chloride defloit is usually mild, not requiring specific treatment except in extraordinary circumstances (liver, renal disease). Thiszde-like diuretics histophore-branches and the proposal controlled in the controlled of the controlled in extraordinary circumstances (liver, renal disease). have been shown to increase the urinary excretion of magnesium; this may result in

hypornagnesemia.

Hyperuncemia may occur, and Irank gout may be precipitated in certain patients receiving indapamide. Serum concentrations of unic acid should be monitored

periodically. Use with caution in patients with severe renal disease; consider withholding or discontinuing if progressive renal impairment is observed. Renal function tests should be performed periodically. Use with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance may precipitate

hepatic coma.

Latent diabetes may become manifest and insulin requirements in diabetic patients

Latent diabetes may become manifest and insulin requirements in diabetic patients may be altered during thiazide administration. A mean increase in glucose of 6.47 mg/dl, was observed in patients treated with indepamide 1.25 mg, which was not considered clinically significant in these trials. Serum concentrations of glucose should be monitored routinely during freatment with indepamide. Calcium excretion is decreased by disrettics pharmacologically related to indepamide. After six to eight weeks of indepamide 1.25 mg treatment and in long-term studies of hypertensive patients with higher doses of indepamide, however, serum concentrations of calcium increased only slightly with indepamide. Indepamide may decrease serum PBI levels without signs of thyroid disturbance. Complications of hyperparathyroidsm have not been seen. Discontinue before tests of parathyroid function are performed.

Thiazides have exacerbated or activated systemic lupus erythematosus. Consider this possibility with indepamide.

DRUG INTERACTIONS: LOZOL may add to or potentiate the action of other antihypertensive drugs. The antihypertensive effect of the drug may be enhanced in the postsympathectomized patient. Indapamide may decrease arterial responsiveness to norepinephrine, but this does not preclude the use of

In mouse and rat lifetime carcinogenicity studies, there were no significant differences in the incidence of tumors between the indapamide-treated animals and

the control groups.

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

ADVERSE REACTIONS: Most adverse effects have been mild and transient. From Phase IIIII placebo-controlled studies with indapamide 125 mg, adverse reactions with ≥5% cumulative incidence: headache, infection, pain, back pain, dizziness, thinitis; ≤5% cumulative incidence: asthenia, flu syndrome, abdominal pain, chest pain, constipation, diarrhea, dyspepsia, nausea, peripheral edema, nervouses, hypertonia, cough, phanyngits, sinusitis, conjunctivitis. All other clinical adverse reactions occurred at an incidence of 1%. In controlled clinical trials of six to eight weeks in duration, 20% of patients receiving indapamide 1.25 mg, 6.1% of patients receiving indapamide 1.00 mg had at least one potassium value below 3.4 mEg/L. In the indapamide 1.25 mg group, about 40% of those patients who reported hypokalemia as a laboratory adverse event returned to normal serum potassium values without intervention. Hypokalemia with concomitant clinical signs or symptoms occurred in 2% of patients ADVERSE REACTIONS: Most adverse effects have been mild and transient. From

receiving inapamile: 1,2 mg. Froint research pages in paces committed studies and orig-term controlled clinical finals with LOZOL 2.5 mg or 5.0 mg, adverse reactions with 2.5% cumulative incidence: headache, dizziness, talique, weakness, loss of energy, lethargy, tiredness or malaise, muscle cramps or spasm or numbness of the extremities, nervousness, tension, analety, uritability or agitation, 45% cumulative incidence: lightheadedness, drowsiness, vertigo, insomnia, depression, blurred vision, constigation, mausea, vorniting, diarnhea, gastic irritation, abdominal pain or cramps, anorexia, orthostatic hypotension, premature abdominal pain or cramps, anotexia, orthostatic hypotension, permature ventricular contractions, irregular heart beat, palpitations, frequency of urnation, nocturia, polyuria, rash, hives, puntlus, vasculiiis, impotence or reduced libido, rhinorhea, flushing, hyperuncemia, hyperglycemia, hyponatremia, hypochloremia, increase in serum BUN or creatinine, glycosunia, weight loss, dy mouth, fingling of extremities. Hypokalemia with concomitant clinical signs or symptoms occurred in 3% of patients receiving indapamide 2.5 mg q.d. in long-term controlled clinical trials comparing the hypokalemia effects of daily doses of indapamide and hydrochlorothiazides onwever, 47% of patients receiving indapamide 5 mg, and 44% of patients receiving indapamide 5.5 mg, 27% of patients receiving indapamide 5.5 mg and the patients receiving indapamide 5.5 mg and the patients receiving indapamide 5.5 mg and the patients returned to normal serum potassium value (out of a total of 11 taken during the study) below 3.5 mEq.L. In the indapamide 5.5 mg group, over 50% of those patients returned to normal serum potassium value (out of a total of 11 taken during the study) below 3.5 mEq.L. In the indapamide 5.5 mg group, over 50% of those patients returned to normal serum potassium value (out of a total of 11 taken during the study) below 3.5 mEq.L. In the indapamide 5.5 mg group, over 50% of those patients returned to normal serum potassium value (out of a total of 11 taken during the study) below 3.5 mEq.L. In the indapamide 5.5 mg group, over 50% of those patients returned to normal serum potassium value (out of a total of 11 taken during the study) below 3.5 mEq.L. In the indapamide 5.5 mg and 5.5 m

CAUTION: Federal (U.S.A.) law prohibits dispensing without prescription. Keep tightly closed. Store at controlled room temperature, 15"-30"C (59"-86"F). Avoid excessive heat. Dispense in tight containers as defined in USP. See product circular for full prescribing information Revised: 5/93

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





- In patients with mild or moderate hypertension, a 4-week, single-blind placebo washout period was followed by an 8-week, open-label treatment period with LOZOL 2.5 mg. Patients responding to LOZOL 2.5 mg entered an 8-week, double-blind, randomized treatment period with either LOZOL 2.5 mg or LOZOL 1.25 mg. Treatment success was defined as a decrease in supine diastolic blood pressure to 90 mm Ha or less by week 8 of the double-blind period.
- Because of the diuretic effects of LOZOL 1.25, changes in certain electrolytes and blood chemistries can occur. Serum electrolytes and blood chemistries should therefore
- ‡ 19.6% of patients had values less than 3.4 mEq/L. Only 7.5% had potassium levels below 3.2 mEq/L and less than 1% fell below 3.0 mEq/L. Metabolic changes at higher doses of indapamide may be greater.

As in all step-down therapy, the patient should be monitored for maintenance of blood pressure control.

Please see brief summary of prescribing information below

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THE COUGH LIQUIDATOR

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.

3 times more guaifenesin per tablet than a teaspoon of other codeine brands.*

Only new Brontex combines 10 mg codeine—the most commonly prescribed level of the antitussive many doctors prefer—with 300 mg guaifenesin—the expectorant with the time-proven safety profile—in a convenient, single-tablet dose.

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

2400 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

NEW Bron

CODEINE PHOSPHATE...10 mg GUAIFENÉSIN......300mg

FEWER COUGHS, WETTER COUGHS

Please see brief summary of prescribing information on next page.

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®

ne phosphate/guaifenesin) tablets

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

of bothersome mucus.

CONTRAINDICATIONS: Brontex tablets are contraindicated in patients with known hypersensitivity to any of its ingredients. 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 depressant effects of codeine, including respiratory arrest, coma, and death.

PRECAUTIONS: General: Codeine should be used with extreme caution in patients with severe CNS depression, respiratory depression, or those prone to respiratory depression, acute alcoholism, chronic pulmonary disease and thouth substantially decreased respiratory reserve. Codeine should be administered with caution in patients with acute abdominal conditions, convulsive disorders, significant hepatic or renal impairment, fever, hypothyroidism, Addison's disease, ulcerative colidis, 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 atopy.

Dosage of codeine 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.

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. Codeline may cause or aggravate constitution.

Hypotensive Effects: Codeline 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 codeline, 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 pupillary changes which may obscure the clinical course of patients with head injuries.

Respiratory Conditions with Productive Cough or Chronic Respiratory Disease: The risks and benefits of opiate agonists or cough suppressants, including codeline, should be carefully considered in illness associated with productive cough or in chronic respiratory disease where interference with ability to clear the tracheobronchial tree of secretions would have a deleterious 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, hyponotics, 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 c

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.

cause greater sedation than is caused by the products used alone.

Drug/Laboratory Test Interactions: Guarienesin has been reported to interfere with clinical laboratory determinations of urinary 5-hydroxyindoleacetic acid (5-HIAA) and urinary vanillylmandelic acid (VMA).

Because opiate agonists may increase biliary tract pressure, with resultant increases in plasma armylase 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 Brantex tablets in animals to evaluate carcinogenic, mutagenic, or impairment of fertility potential have not been conducted. Studies conducted by the National Toxicology Program with codeine in rats and mice to evaluate its carcinogenic potential are in progress.

Program with codeline in rais and mice to evaluate its continued in progress.

Teratogenic Effects: Pregnancy Category C. Animal reproduction studies have not been conducted with Brontex tablets can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Brontex tablets should be given to a pregnant woman only if clearly needed.

Studies with codeline in hamsters and mice to evaluate its developmental toxicity potential have been reported by the National Toxicity potential have been reported by the National Toxicity potential have been reported by the National Toxicity produces tructural 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/quaifenesin) tablets

signs usually disappear during the first few days of life.

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 therapeutic dose. It is not known whether gualifenesin 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 list: Rrontex tablets are not recommended for use in children helow the age of 12 years. Brontex liquid is not

Pediatric Use: Brontex tablets are not recommended for use in children below the age of 12 years. Brontex liquid is not led for use in children below the age of 6 years

recommended 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 agonists), and circulatory depression.

Gastrointestinal: Nausea, vomiting, stomach pain, constipation, and billary tract spasm. Patients with chronic ulcerative colitis may experience increased colonic motility; in patients with acute ulcerative colitis, toxic dilation has heen renorted.

The bean reputed.

Gentlourinary: Oliguria and urinary retention; antidiuretic effect has been reported (common to opiate agonists).

Allergic: Infrequent pruntus, urticaria, angioneurotic edema, laryngeal edema, and rare anaphylactic reaction.

Other: Flushing of the face, sweating, and weakness.

DRUG ABUSE AND DEPENDENCE: 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-

and agonists because of its lower potency at therapeutic doses. However, or deline 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.

OVERDIGSAGE:

Psychological dependence, physical dependence, and tolerance are known to occur with codeine.

OVERDOSAGE:

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 (mydniasis 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 antagonist nakoxon is a specific antidote against respiratory depression resulting from overdosage or unusual sensitivity to opiate agonists, including codeine. Therefore, an appropriate dose of naloxone hydrochloride (see package insert) may be administered ose of naloxone hydrochloride (see package insert) may be administered, preferably by the intravenous route, and simultaneously with efforts at respiratory resuscitation. Since the duration of action of codeine may exceed that of the antagonist, thould not be administered as needed to maintain adequate respiration.

An antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression. Oxygen, intravenous fluids, vasopressors and other supportive measures should be employed as indicated. If the amount ingested is considered dangerous or excessive, induce vomiting with peace syrup unless the patient is convulsing, comatose, or has lost the gag reflex, in which case perform gastric lavage using a large-bore tube. If indicated, follow with activated charcoal and a saline cathartic.

DOSAGE AND ADMINISTRATION:

Adults and children 12 years o

HOW SUPPLIED:

Brontex tablets are available as a red, capsule-shaped tablet, embossed "BRONTEX".

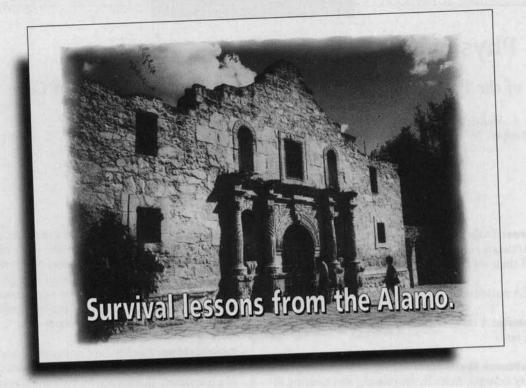
NDC 0149-0440-01 bottle of 100.

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.





Interactions

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* The AMA designates the *Interactions* conference for 18 credit hours of Category 1 of the Physician's Recognition Award of the AMA.

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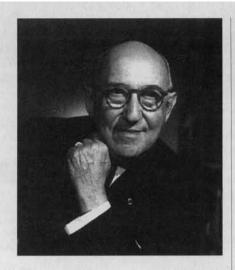


Announcing

The American Medical Association

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July 1, 1995 through June 30, 1996



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

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

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

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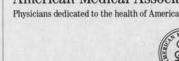
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P4FA1

fracture is located from the metacarpal neck, the lower the acceptable amount of angulation (Figure 6, right). Fractures at the base of the fifth metacarpal, while less common, will require orthopedic pinning to achieve satisfactory stability.

The advantage of splinting a fifth metacarpal fracture rather than circumferential casting is that splinting eliminates many of the risks associated with a circumferential cast. Patients who are involved in altercations and sustain this injury are frequently intoxicated. Should the patient be noncompliant with instructions on care of a circumferential cast. neurovascular supply to the extremity may be compromised. This is particularly true if the patient falls asleep while intoxicated and allows the arm to hang down shortly after the circumferential cast has been applied.

In evaluation of any fifth metacarpal injury, special care must be given to anyone who has a concomitant laceration near the fifth MCP joint. An attacking clenched fist may contact the mouth of the other fighter and the fifth MCP joint space may be entered by a tooth. Since the MCP joint is superficial, joint injury is easily incurred. If not immediately identified, a septic arthritis of the MCP joint may ensue, with potential problems of osteomyelitis and residual osteoarthritis. All lacerations over the fifth MCP joint should be considered to be human bites until proven otherwise and aggressively treated with early orthopedic evaluation, frequently including operative exploration and débridement. A low threshold of suspicion is necessary since many of these patients will have no recollection of the injury or will deliberately lie about the nature of the injury.

CONCLUSIONS

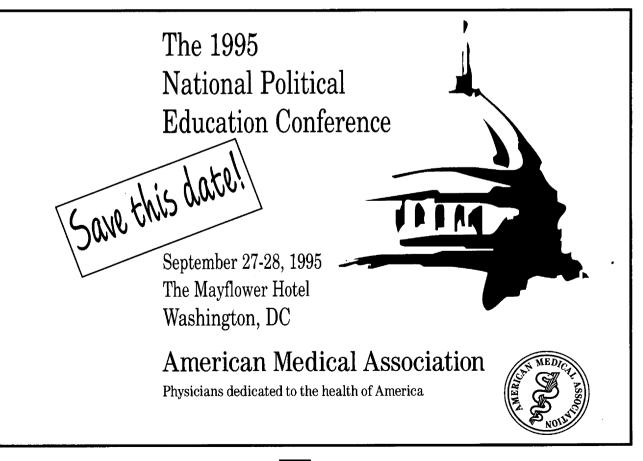
The five hand fractures that are discussed in this article are common injuries that will be seen in an office setting. By understanding those circumstances for each problem that will require orthopedic intervention or specialized treatment, the family physician can totally treat the majority of these fractures. The factors that are likely to be more difficult complications include displaced or irreducible fractures, intra-articular fracture with large fragments, comminuted fractures, and those with associated neurovascular or tendon injury.

Accepted for publication June 23, 1994.

Correspondence to Family Practice Residency Program, Saint Margaret Memorial Hospital, 815 Freeport Rd, Pittsburgh, PA 15215 (Dr Schaffer).

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Encouragement

This message could be one of encouragement to you and, perhaps, certain of your • patients.

Paget's disease of bone — not the rare disease it was once thought to be — is treatable in most cases. The earlier it is detected the more responsive to treatment it is likely to be. And detection can usually be accomplished with a few simple, noninvasive procedures.

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Calan® SR (verapamil hydrochloride)

RRIFF SUMMARY

Contraindications: Severe IV dysfunction (see Warnings), hypotension (systotic pressure < 90 mm Hg) or cardiogenic shock sick sirus syndrome (if no pacemaker is present), arrial flutter/fibrillation with an accessory bypass tract (eg. WPW or LGL syndromes), hypersenstitivity to verapamii. Warnings: Verapamii should be avoided in patients with severe IV dysfunction (eg. ejection fraction < 30%) or moderate to severe symptoms of cardiac faiture and in patients with any degree of ventricular dysfunction if they are receiving a beta-blocker. Control midder heart faiture with optimum digitalization and/or diuretics before Calan SR is used. Verapamii may occasionally produce hypotension. Elevations of liver enzymes have been reported. Several cases have been demonstrated to be produced by verapamii. Periodic monitoring of liver function in patients on verapamii is prudent. Some patients with paroxysmal and/or chronic atrial flutter/fibrillation and an accessory AV pathway (eg. WPW or LGL syndromes) have developed an increased antegrade conduction across the accessory pathway bypassing the AV node, producing a very rapid ventricular response or ventricular fibrillation after receiving I.V. verapamil (or digitails). Because of this risk, oral verapamil is contraindicated in such patients. AV block may occur (2nd - and 3rd-degree, 0.8%). Development of marked 1st-degree block or progression to 2nd- or 3rd-degree block requires reduction in dosage or, rarely, discontinuation and institution of appropriate therapy. Sinus bradycardia, 2nd-degree AV block, sinus arrest, pulmonary edema and/or severe hypotension were seen in some critically ill patients with hypertrophic cardiomyopathy who were treated with verapamil.

some critically ill patients with hypertrophic cardiomyopathy who were treated with verapamil.

Precautions: Verapamil should be given cautiously to patients with impaired hepatic function (in severe dysfunction use about 30% of the normal dose) or impaired renal function, and patients should be monitored for abnormal prolongation of the PR interval or other signs of overdosage. Verapamil may decrease neuromuscular transmission in patients with Duchenne's muscular dystrophy and may prolong recovery from the neuromuscular blocking agent vecuronium. It may be necessary to decrease verapamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenario: blockers and verapamil may result in additive the neuromuscular blocking agent vectorium, it may be tree-ssary to decrease verapamil dosage in patients with attenuated neuromuscular transmission. Combined therapy with beta-adrenergic blockers and verapamil may result in additive negative effects on heart rate, atrioventricular conduction and/or cardiac contractility; there have been reports of excessive bradycardia and AV block, including complete heart block. The risks of such combined therapy may outweigh the benefits. The combination should be used only with caution and close monitoring. Decreased metoprolol and propranolol clearance may occur when either drug is administered concomitantly with verapamil. A variable effect has been seen with combined use of atenolol. Chronic verapamil treatment can increase surum digoni levels by 50% to 75% during the first week of therapy, which can result in digitalist toxicity. In patients with hepatic citrhosis, verapamil may reduce total body clearance and extraenal clearance of digitoxin. The digoxin dose should be reduced when verapamil is given, and the patient carefully monitored. Verapamil will usually have an additive effect in patients receiving blood-pressure-lowering agents. Disopyramide should not be given within 48 hours before or 24 hours after verapamil administration. Concomitant use of flecainide and verapamil amy have additive effects on myocardial contractifity, AV conduction, and repolarization. Combined verapamil and quinicine therapy in patients with hypertrophic cardiomyopathy should be avoided, since significant hypotension may result. Concomitant use of lithium and verapamil may result in an increased sensitivity to lithium (neurotoxicity), with either no change or an increase reasumazepine concentrations during combined use. Rifampin may reduce verapamil bray lincrease everung both drugs must be monitored carefully. Verapamil may increase carbamazepine concentrations during combined use. Rifampin may reduce verapamil bray solvesis horders in high may increase searun levels of cyclosporn. Ver ylline. Concomitant use of inhalation anesthetics and calcium antagonists needs careful titration to avoid excessive cardio-vascular depression. Verapamil may potentiate the activity of neuromuscular blocking agents (curare-like and depolarizing); dosage reduction may be required. There was no evidence of a carcinogenic potential of verapamil administered to rats for 2 years. A study in rats did not suggest a tumorigenic potential and verapamil was not mutagenic in the Ames test. Pregnancy Category C. There are no adequate and well-controlled studies in pregnant women. This drug should be used during pregnancy, labor, and delivery only if clearly needed. Verapamil is excreted in breast milk; therefore, nursing should be discontinued during veranamil use.

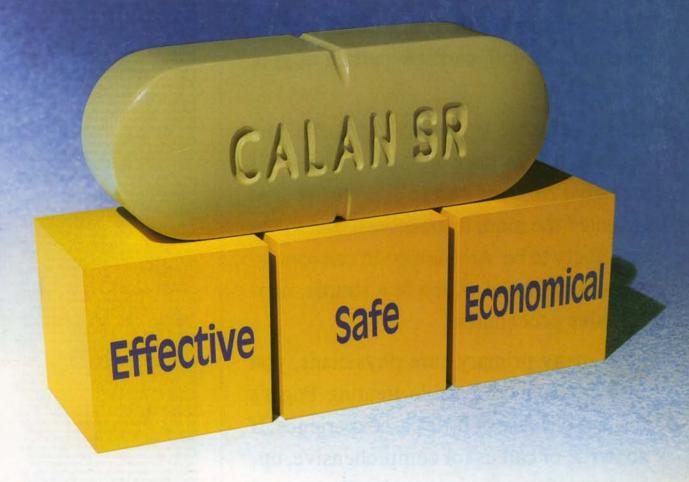
nancy, labor, and delivery only in learny network verapamin secreted in breast milk; therefore, nursing should be discontinued during verapamil use.

Advarae Reactions: Constipation (7.3%), dizziness (3.3%), nausea (2.7%), hypotension (2.5%), headache (2.2%), edema (1.9%), CHF, pulmonary edema (1.8%), fatigue (1.7%), dyspnas (1.4%), bradycardis: HR < 50/min (1.4%), AV block: total 1*.2*, 3° (1.2%), 2° and 3° (0.8%), rash (1.2%), flushing (0.6%), elevated liver enzymes, reversible non-obstructive paralytic ileus. The following reactions, reported in 1.0% or less of patients, occurred under conditions where a causal relationship is uncertain: anging pectors, attrovertricular dissociation, chest pain, claudication, myocardial infarction, palpitations, purpura (vasculitis), syncope, diarrhea, dry mouth, gastrointestinal distress, gingival hyperplasia, ecchymosis or bruising, cerebrovascular accident, confusion, equilibrium disorders, insonia, muscle cramps, persthesa, psychotic symptoms, shakiness, somnolence, arthralgia and rash, exanthema, hair loss, hyperkeratosis, macules, sweating, urticaria, Stevens-Johnson syndrome, erythema multiforme, blurred vision, gynecomastia, galactorrhea/hyperprolactinemia, increased unnation, spotty menstruation, impotence.

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

Please see following page for brief summary of complete prescribing information.

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