THE JOURNAL OF CLINICAL AND APPLIED RESEARCH AND EDUCATION

Diabetes



FEBRUARY 1994

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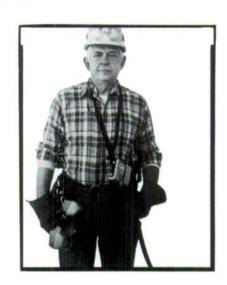




FOR TYPE II DIABETICS LIFE IS DEMANDING ENOUGH...







FOR TYPE II DIABETES, NSULIN ON DEMA

CAN'T ALWAYS EAT REGULARLY.

GLUCOTROL provides patients with insulin only when needed, responding on demand to meals and rising blood sugar1

DOUBLE SHIFTS.

GLUCOTROL, with insulin on demand, controls blood sugar quickly and effectively-all day and all night1

TOUGH PHYSICAL WORK.

GLUCOTROL works

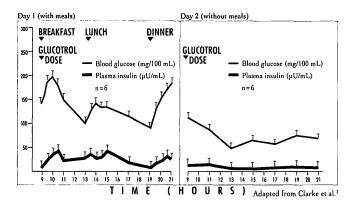
in response to meals; then insulin returns to near-normal levels once the meal challenge subsides1.2

When diet alone fails in NIDDM...





INSULIN ON DEMAND RESPONDS TO MEALS— AND REMAINS AT BASAL LEVELS DURING FASTING



The effect of fasting on mean blood sugar and plasma insulin levels was measured in a 2-day study of six NIDDM patients whose blood sugar levels had been controlled by a single daily dose of 5 to 10 mg of GLUCOTROL. On the first day, patients were served three meals. On the second, they received no food. Patients received their usual dose of GLUCOTROL at the start of each day 1

REFERENCES: 1. Clarke BF, Corrall RJM, Azzopardi J, Bhalla IP, Fraser DM, Duncan LJP. Clinical observations on glipizide: efficacy, duration of activity, and safety. In: Glipizide: A Worldwide Review Princeton, NJ: Excerpta Medica: 1984/234-247. 2. Goebel R, Leb G. Effects of glyburide and glipizide on levels of immunoreactive insulin and blood sugar. In: Glipizide: A Worldwide Review. Princeton, NJ: Excerpta Medica; 1984:9-15.

Brief Summary of Prescribing Information

INDICATIONS AND USAGE: GLUCOTROL is indicated as an adjunct to diet for the control of hyperglycemia in patients with noninsulin-dependent diabetes meliitus (NIDDM, type II) after an adequate trial of dietary therapy has proved unsatisfactory.

CONTRAINDICATIONS: GLUCOTROL is contraindicated in patients with known hypersensitivity to the drug or with diabetic

ketoacidosis, with or without coma, which should be treated with insulin

SPECIAL WARNING ON INCREASED RISK OF CARDIOVASCULAR MORTALITY: The administration of oral hypoglycemic drugs has been reported to be associated with increased cardiovascular mortality as compared to treatment with diet alone or diet plus insulin. This warning is based on the study conducted by the University Group Diabetes Program (UGDP), a long-term prospective clinical trial designed to evaluate the effectiveness of glucose-lowering drugs in preventing or delaying vascular complications in patients with non-insulin-dependent diabetes. The study involved 823 patients who were randomly assigned to one of four treatment groups (Diabetes, 19, supp. 2:747-830, 1970).

UGDP reported that patients treated for 5 to 8 years with diet plus a fixed dose of tolbutamide (1.5 grams per day) had a rate of cardiovascular mortality approximately 2½ times that of patients treated with diet alone. A significant increase in total mortality was not observed, but the use of tolbutamide was discontinued based on the increase in cardiovascular mortality, thus limiting the opportunity for the study to show an increase in overall mortality. Despite controversy regarding the interpretation of these results, the findings of the UGDP study provide an adequate basis for this warning. The patient should be informed of the potential risks and advantages of GLUCOTROL and of alternative modes of therapy. Although only one drug in the sulfonylurea class (tolbutamide) was included in this study, it is prudent from a safety standpoint to consider that this warning may also apply to other oral hypoglycemic drugs in this class, in view of their close similarities in mode of action and chemical structure.

PRECAUTIONS: Renal and Hepatic Disease: The metabolism and excretion of GLUCOTROL may be slowed in patients with impaired renal and/or hepatic function. Hypoglycemia may be prolonged in such patients should it occur.

Hypoglycemia: All sulfonylureas are capable of producing severe hypoglycemia. Proper patient selection, dosage, and instructions are important to avoid hypoglycemia. Renal or hepatic insufficiency may increase the risk of hypoglycemic reactions. Elderly, debillated or malnourished patients and those with adrenal or pituliary insufficiency are particularly susceptible to the hypoglycemic action of glucose-lowering drugs. Hypoglycemia may be difficult to recognize in the elderly or people taking beta-adrenergic blocking drugs. Hypoglycemia is more likely to occur when caloric intake is deficient, after severe or prolonged exercise, when alcohol is ingested, or when more than one alucose-lowering drug is used.

Loss of Control of Blood Glucose: A loss of control may occur in diabetic patients exposed to stress such as fever, trauma, infection or surgery. It may then be necessary to discontinue GLUCOTROL and administer insulin.

Laboratory Tests: Blood and urine glucose should be monitored periodically. Measurement of glycosylated hemoglobin may be useful. Information for Patients: Patients should be informed of the potential risks and advantages of GLÜCOTROL, of alternative modes of therapy, as well as the importance of adhering to dietary instructions, of a regular exercise program, and of regular testing of urine and/or blood glucose. The risks of hypoglycemia, its symptoms and treatment, and conditions that predispose to its development should be explained to patients and responsible family members. Primary and secondary failure should also be explained.

Drug Interactions: The hypoglycemic action of sulfonylureas may be potentiated by certain drugs including nonsteroidal antiinflammatory agents, some azoles, and other drugs that are highly protein bound, salicylates, sulfonamides, chloramphenicol, probenecid coumarins, monoamine oxidase inhibitors, and beta-adrenergic blocking agents. In vitro studies indicate that GLUCOTROL binds differently than tolbutamide and does not interact with salicylate or dicumarol. However, caution must be exercised in extrapolating these findings to a clinical situation. Certain drugs tend to produce hyperglycemia and may lead to loss of control, including the thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, estrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blocking drugs, and isoniazid. A potential interaction between oral miconazole and oral hypoglycemic agents lending to severe hypoglycemia has been reported. Whether this interaction also occurs with the intravenous, topical, or vaginal preparations of miconazole is not known. The effect of concomitant administration of DIFLUCAN (fluconazole) and GLUCOTROL has been demonstrated in a placebo-controlled crossover study in normal volunteers. All subjects received GLUCOTROL alone and following treatment with 100 mg of DIFLUCAN as a single daily oral dose for 7 days. The mean percentage increase in the

GLUCOTROL AUC after fluconazole administration was 56.9% (range: 35 to 81).

Carcinogenesis, Mutagenesis, Impairment of Fertility: A 20-month study in rats and an 18-month study in mice at doses up to 75 times the maximum human dose revealed no evidence of drug-related carcinogenicity. Bacterial and in vivo mutagenicity tests v uniformly negative. Studies in rats of both sexes at doses up to 75 times the human dose showed no effects on fertility.

Pregnancy: Pregnancy Category C: GLUCOTROL (glipizide) was found to be mildly fetotoxic in rat reproductive studies at all dose levels (5-50 mo/kg). This fetotoxicity has been similarly noted with other sulfonylureas, such as tolbutamide and tolazamide. The effect is perinatal and believed to be directly related to the pharmacologic (hypoglycemic) action of GLUCOTROL. In studies in rats and rabbits no teratogenic effects were found. There are no adequate and well-controlled studies in pregnant women. GLUCOTROL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

FOR TYPE II DIABETES,

TODAY'S LIFE DEMANDS



When diet alone fails in NIDDM...



Because recent information suggests that abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital abnormalities, many experts recommend that insulin be used during pregnancy to maintain blood glucose levels as close to

Nonteratogenic Effects: Prolonged severe hypophycemia has been reported in neonates born to mothers who were receiving a sulfonylurea drug at the time of delivery. This has been reported more frequently with the use of agents with prolonged half-lives. GLUCOTROL should be discontinued at least one month before the expected delivery date.

Nursing Mothers: Since some sulfonylurea drugs are known to be excreted in human milk, insulin therapy should be considered if

nursing is to be continued. **Pediatric Use:** Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: In controlled studies, the frequency of serious adverse reactions reported was very low. Of 702 patients, 11.8% reported adverse reactions and in only 1.5% was GLUCOTROL discontinued.

Hypoglycemia: See PRECAUTIONS and OVERDOSAGE sections.

Gastrointestinal: Gastrointestinal disturbances, the most common, were reported with the following approximate incidence: nausea and diarrhea, one in 70; constipation and gastralgia, one in 100. They appear to be dose-related and may disappear on division or reduction of

dosage. Cholestatic jaundice may occur rarely with sulfonylureas: GLUCOTROL should be discontinued if this occurs. **Dermatologic:** Allergic skin reactions including enythema, morbilliform or maculopapular eruptions, urticaria, pruritus, and eczema have been reported in about one in 70 patients. These may be transient and may disappear despite continued use of GLUCOTROL; if skin reactions persist, the drug should be discontinued. Porphyria cutanea tarda and photosensitivity reactions have been reported

Hematologic: Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia, aplastic anemia, and pancytopenia have been reported with sulfonylureas

Metabolic: Hepatic porphyria and disulfiram-like alcohol reactions have been reported with sulfonylureas. Clinical experience to date has shown that GLUCOTROL has an extremely low incidence of disulfiram-like reaction

Endocrine Reactions: Cases of hyponatremia and the syndrome of inappropriate antidiuretic hormone (SIADH) secretion have been reported with this and other sulfonylureas.

Miscellaneous: Dizziness, drowsiness, and headache have each been reported in about one in fifty patients treated with GLUCOTROL

They are usually transient and seldom require discontinuance of therapy.

OVERDOSAGE: Overdosage of sulfonylureas including GLUCOTROL can produce hypoglycemia. If hypoglycemic coma is diagnosed or suspected, the patient should be given a rapid intravenous injection of concentrated (50%) glucose solution. This should be followed by a continuous infusion of a more dilute (10%) glucose solution at a rate that will maintain the blood glucose at a level above 100 mg/dL. Patients should be closely monitored for a minimum of 24 to 48 hours since hypoglycemia may recur after apparent clinical recovery. Clearance of GLUCOTROL from plasma would be prolonged in persons with liver disease. Because of the extensive protein binding of GLUCOTROL, dialysis is unlikely to be of benefit.

DOSAGE AND ADMINISTRATION: There is no fixed dosage regimen for the management of diabetes mellitus with GLUCOTROL; in general, it should be given approximately 30 minutes before a meal to achieve the greatest reduction in postprandial hyperglycemia

Initial Dose: The recommended starting dose is 5 mg before breakfast. Geriatric patients or those with liver disease may be started on 2.5 mg. Dosage adjustments should ordinarily be in increments of 2.5-5 mg, as determined by blood glucose response. At least several days should elapse between titration steps.

Maximum Dose: The maximum recommended total daily dose is 40 mg

Maintenance: Some patients may be effectively controlled on a once-a-day regimen, while others show better response with divided

dosing. Total daily doses above 15 mg should ordinarily be divided.

HOW SUPPLIED: GLUCOTROL tablets are white, dye-free, scored, diamond-shaped, and imprinted as follows:

5 mg—Pfizer 411; 10 mg—Pfizer 412. 5 mg Bottles: 100's (NDC 0049-4110-66), (NDC 59012-411-66); 500's (NDC 0049-4110-73), (NDC 59012-411-73); Unit Dose 100's (NDC 0049-4110-41), (NDC 59012-411-41).
10 mg Bottles: 100's (NDC 0049-4120-66), (NDC 59012-412-66); 500's (NDC 0049-4120-73), (NDC 59012-412-73); Unit Dose

100's (NDC 0049-4120-41), (NDC 59012-412-41).

CAUTION: Federal law prohibits dispensing without prescription

More detailed professional information available on request

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Diabetes Care



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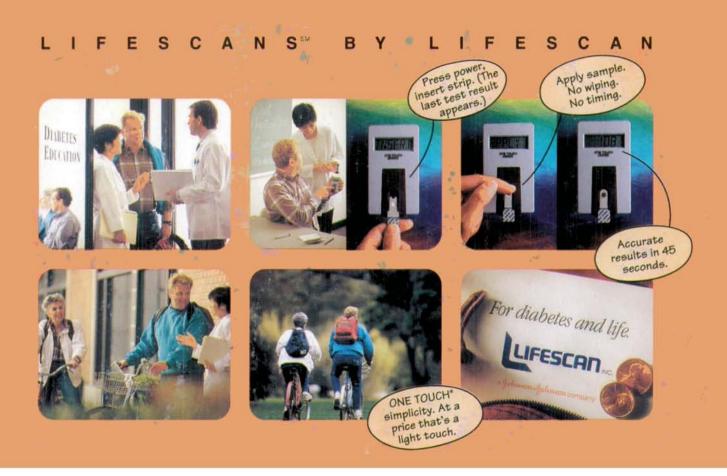
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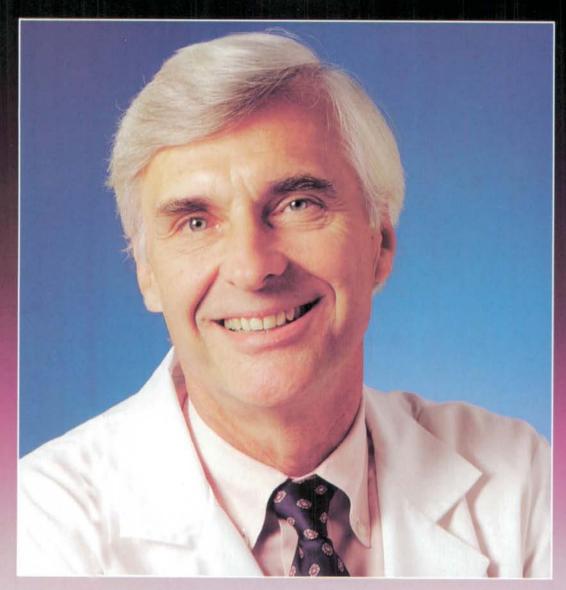
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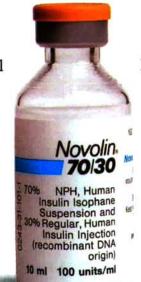
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■ 7 out of 10 patients treated with Zostrix*-HP (Capsaicin 0.075%) can expect significant pain relief'

Description: Zostrix/Zostrix-HP contain capsa Description: Zostrix/Zostrix-HP contain capsaicin in an emollient base containing benzyl alcohol, cetyl alcohol, glyceryl monostearate, isopropyl myristate, polyoxyethylene stearate blend, purified water, sorbitol solution and white petrolatum. Capsaicin is a naturally occurring substance derived from plants of the Solanaceae family with the chemical name trans-8-methyl-N-vanilyl-6-nonenamide. Capsaicin is a white crystalline powder with a molecular weight of 305.4. It is practically insoluble in water but very soluble in alcohol, ether and chloroform.

Action: Although the precise mechanism of action of cap-saicin is not fully understood, current evidence suggests that capsaicin renders skin and joints insensitive to pain by depleting and preventing reaccumulation of substance P in peripheral sensory neurons. Substance P is thought to be the principal chemomediator of pain impulses from the peripher to the central nervous system. In addition, substance P has been shown to be released into joint tissues and activate inflammatory mediators involved with the pathogenesis of rheumatoid arthritis. rheumatoid arthritis.

Indication: Zostrix/Zostrix-HP are indicated for the temporary relief of pain from rheumatoid arthritis, osteoarthritis and relief of neuralgias such as the pain following shingles (herpes zoster) or painful diabetic neuropathy.

Warnings: FOR EXTERNAL USE ONLY. Avoid contact with eyes and broken (open) or irritated skin. Do not bandage tightly. If condition worsens, or does not improve after 28 days, discontinue use of this product and consult your physician. Keep this and all drugs out of the reach of children. In case of accidental ingestion, seek profes-sional assistance or contact a Poison Control Center imme-

Directions: Adults and children 2 years of age and older: Apply Zostrix/Zostrix-HP to affected area 3 to 4 times daily. Transient burning may occur upon application, but generally disappears in several days. Application schedules of less than 3 to 4 times a day may not provide optimum pain relief and the burning sensation may persist. Wash hands if possible after applying Zostrix/Zostrix-HP avoiding areas where drug was applied.

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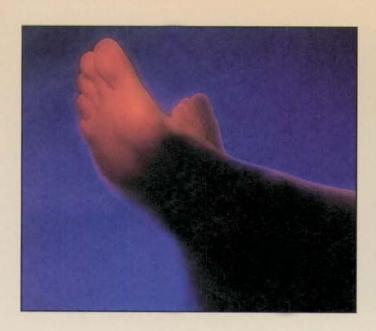
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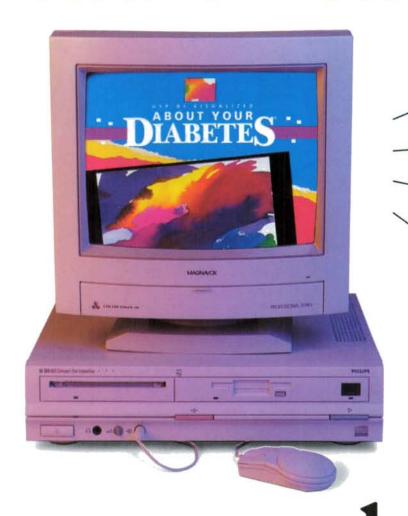
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 Topical capsaicin in painful diabetic neuropathy: controlled study with long-term follow-up. Diabetes Care. 1992;15(1):8-14.
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Maximizing the Role of Nutrition in Diabetes Management

Overview

The American Diabetes Association, in cooperation with the Diabetes Care and Education Practice Group of The American Dietetic Association, has developed a continuing education program focusing on the role of nutrition in diabetes management. This program is directed

toward health care professionals who serve the population with or at risk for diabetes. The program emphasizes the role of nutrition therapy in metabolic control of diabetes, and includes information obtained from the recently published DCCT (Diabetes Control and Complications Trial).

Target Audience

Dietitians, nurses and other health care professionals with an interest in the role of nutrition therapy in diabetes management.

Program |

The full day program will include:

- DCCT: Nutrition Mandate
- Medical Framework for Nutrition Therapy
- Nutrition Research, Controversies and Applications for Clinical Practice
- Nutrition Therapy: A Blending of Sciences

- Diabetes Nutrition for Successful Outcomes in:
 - ◆ Long Term Care
 - Pregnancy: Gestational and Type I
 - ◆ The Medically Complicated Patient
 - · Youth
- Nutrition Translation: Strategies for Success

Continuing Education Credits

Continuing education credits have been applied for through The American Dietetic Association.

Dates, Locations, and Information

This program is scheduled in twelve sites throughout the country from mid-March to mid-May 1994. For a list of sites, program information, or a registration form, contact Jill Thompson, Professional Programs Specialist, American Diabetes Association, 1660 Duke Street, Alexandria, VA 22314; phone: 800/232-3472 ext. 212; fax: 703/683-1839.

Registration Fee

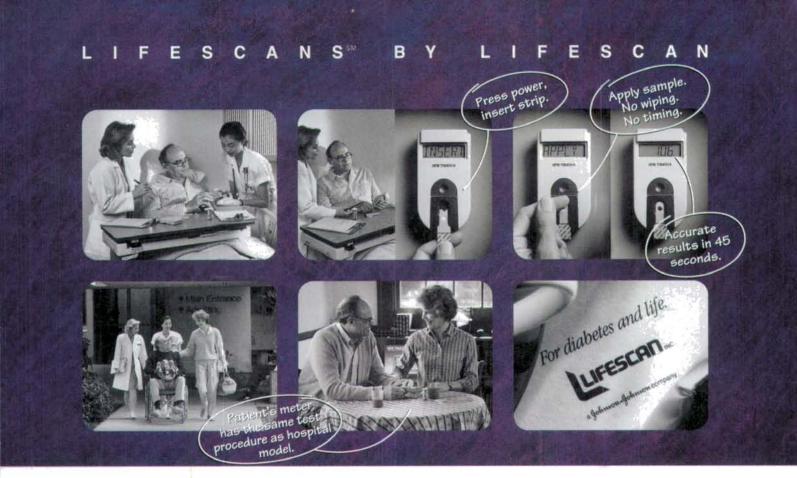
The registration fee for this full day seminar is \$50.00 which includes lunch, two coffee breaks, and participant materials.

This program is sponsored in part by an educational grant from Ross Products Division, Abbott Laboratories.









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AND

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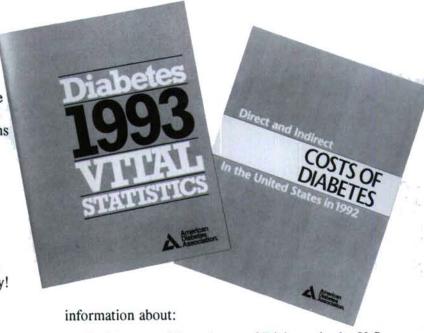
- Number of People with Diabetes
- Risk Factors
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- Prevention
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- Incidence and Prevalence of Diabetes in the U.S.
- Rate of Utilization of Health-Care Services for Treatment of Diabetes and Associated Direct Medical Costs
- Morbidity, Mortality and Associated Indirect Costs

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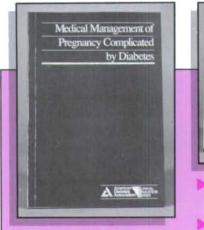
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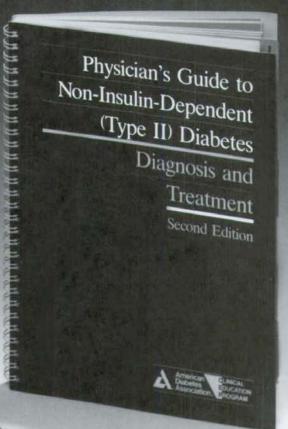
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CONTRAINDICATIONS: Known hypersanstativity reaction to nifedipine
WARNINGS: Excessive Hypotension: Although in most angina patients the hypotensive effect of nifedipine is modest and well
blorated occasional patients have had excessive and poonly blorated hypotension. These responses have usually occurred
during mithal thration or at the time of subsequent upward dosage adjustment, and may be more likely in patients on concomitant
their blorkers.

beta blockers

Severe hypotension and/or increased fluid volume requirements have been reported in patients receiving nifedigine together with a beta-blocking agent who underwent coronary artery bypass surgery using high dose fentanyl anesthesis. The interaction with high dose fentanyl anesthesis to be due to the combination of infedigine and a best blocker, but the possibility time you can with high dose fentanyl appears to be due to the combination of infedigine all one best blockers but the possibility time you can with indedigine alone with low doses of fentanyl anesthesis in contemplated. The physical independent of the patients where surgery using high dose fentanyl anesthesis is contemplated, the physican should be aware of these potential problems and if the patient's condition permits, sufficient time (at least 36 hours) should be allowed for infedigine to be washed out of the body prior to surgery.

The following information should be taken into account in those patients who are being treated for hypertension as well as angina.

aware of these potential problems and if the patient's condition permits, sufficient time (at least 36 hours) should be allowed for infectione to be washed out of the body prior to surgery. The following information should be taken into account in those patients who are being treated for hypertension as well as angina.

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

Beta Blocker Withfurawai: It is important to tape the blockers if possible, rather than stopping them abruptly before beginning infections. The patients is continuously to catecholamies. Infatiation of infectigine treatment will not prevent this occurrence and on occasion has been reported to increase it.

Congestive Heart Failure: Arrely, patients usually receiving a beta blocker, have developed heart failure after beginning nifedipine. Patients with bight acritic stenoiss may be at greater risk for such an event, as the unloading effect of infectigine texpected to be of less benefit to those patients, owing to their fixed impedance to flow across the acritic valve.

PRECAUTIONS: General—Hypotension: Because infedigine decreases peripheral vascular resistance, careful monitoring of blood pressure during the initial administration and firstation of infedigine is suggested. Close observation in sepacially recommended for patients already taking medications that are known to lower blood pressure. (See WARNINGS.)

Peripheral Edema: Mid to moderate peripheral edema occurs in a dose dependent manner with an incidence ranging from approximately 10% to about 30% at the highest dose studied (180 mg). It is a localized phenomenon thought to be associated with vasodiation of dependent arrely are such as a fixed in the properation of the properation o

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

Climetidine. A study in six healthy volunteers has shown as applicant increases in grade infedipine plasma levels (80%) and area-under-the-curve (74%), after a one week course of cimetidine at 1000 mg per day and infedipine at 40 mg per day. Ranktidine produced smaller, non-significiant increases. The effect may be mediated by the known inhibition of cimetidine in decidence of the entryme system probably responsible for the first-pass metabolism of infedipine. In infedipine therapy is initiated in a patient currently receiving ometidine, cautious trittations is advessed.

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

Praginancy: Prepriancy Category C. Nifedipine has been shown to be traversed prior of the studies of the

medications.

The following adverse experiences, reported in less than 1% of patients, occurred under conditions (e.g., open trials, marketing installation, pastrointestinal bleeding.

medications.
The following adverse experiences, reported in less than 1% of patients, occurred under conditions (e.g., open trials, marketing experience) where a causal relationship is uncertain gastrointestinal irritation, gastrointestinal bleeding, in multiple-drose U.S. and foreign controlled studies with infediptine capsules in which adverse reactions were reported spontaneously, adverse effects were frequent but generally not serious and rarely required discontinuation of therapy or dosage adjustaneously, adverse effects were frequent but generally not serious and rarely required discontinuation of therapy or dosage adjustaneously, adverse experiences reported the vasodiator effects of Procardia. Adverse expeniences reported in adoption (25%, compared to 15% placebo incidence), included discaped-oro-controlled trials include discapes, ightheadedness, and giddiness (27%, compared to 15% placebo incidence), inacebo-controlled trials include discapes, includence), analysis, headshe (23%, compared to 25%, placebo incidence), inacebo-controlled of 10% placebo incidence), analysis, headshe (23%, compared to 25%, placebo incidence), peripheral edema (7%, compared to 25%, placebo incidence), peripheral edema (7%, compared to 5% placebo incidence), and wheezing (6%, compared to 3% placebo incidence), palpitation (7%, compared to 5% placebo incidence). Peripheral edema, for the placebo incidence of the

More detailed professional information available on request

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