THE JOURNAL OF CLINICAL AND APPLIED RESEARCH AND EDUCATION

Diabetes



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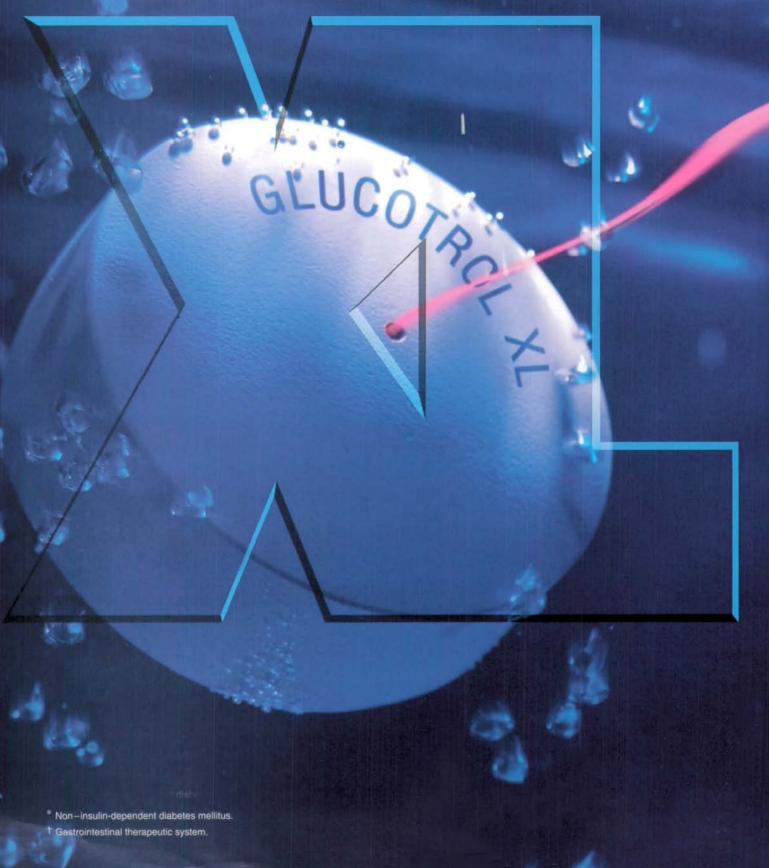
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When diet alone fails in NIDDM*— Effective 24-hour glucose control with once-daily dosing at all doses

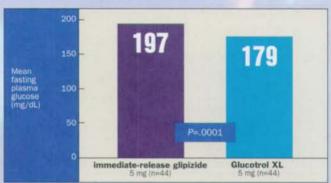


Significant decrease in glycosylated hemoglobin (HbA1c) vs placebo1



A pooled analysis of two16-week, multicenter, randomized, double-blind, placebo-controlled, fixed-dose studies. After a 1-week washout from current sulfonylurea therapy, or diet failures, patients received 3 weeks of placebo. Following a 4-week titration period in a fixed, double-blind regimen, patients were treated with the assigned dose for 8 weeks.

Significantly lower fasting plasma glucose (FPG) levels and equivalent HbA_{1c} concentrations compared with immediate-release glipizide1



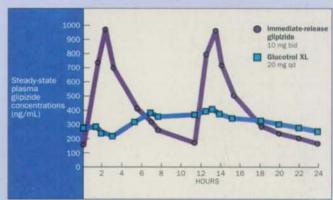
Glucotrol XL™ (glipizide) extended release tablets and immediate-release glipizide were compared in a 16-week, multicenter, open-label, crossover study. The data represent the final FPG levels after 8 weeks of each treatment.

Glucotrol XL is well tolerated

#53		placebo (%) (n=69)	Glucotrol XL (%) (n=278)
Adverse	Asthenia	13.0	10.1
experiences reported with an incidence of 3% or more ¹	Headache	8.7	8.6
	Dizziness	5.8	6.8
	Diarrhea	0.0	5.4'
	Nervousness	2.9	3.6
*Only diamhea	Tremor	0.0	3.6
was statistically significant vs placebo.	Flatulence	1.4	3.2

Incidence of hypoglycemia in 580 patients, who received Glucotrof XL in doses ranging from 5 mg to 60 mg, was 3.4%; only 2.6% of patients discontinued due to hypoglycemia. None of the patients required hospitalization. In the controversial UGDP study, there have been reports of increased cardiovascular risk associated with hypoglycemic therapy.

Glucotrol XL maintains consistent drug levels throughout the day and night1



Glucotrol XL 20 mg qd or immediate-release glipizide 10 mg bid were studied in a 5-day, open, randomized, multiple-dose, two-way, crossover study of 20 male patients with NIDDM. Mean glipizide concentration-time profiles on day 5 are shown.

When diet alone fails in NIDDM ...

GIUCOTTAL (glipizide) extended release Tablets 5 mg and 10 mg GITS As with all suffernments

As with all sulfonylureas, hypoglycemia may occur. Please see brief summary of prescribing information on last page

When diet alone fails in NIDDM...

IUCOTALXIXI (glipizide) extended release Tablets 5 mg and 10 mg GITS

- No need to dose 30 minutes before a meal
- Optimal patient care requires careful titration to the lowest effective dose when using all oral sulfonvlureas
- Continued monitoring of HbA_{1c} or FPG levels is recommended throughout therapy

Reference: 1. Data on file.

Brief Summary of Prescribing Information

INDICATIONS AND USAGE: GLUCOTROL XI. is indicated as an adjunct to diet for the control of hyperglycemia and its associated symptomatology in patients with non-insulin-dependent diabetes mellitus (NIDDM; type II), formerly known as maturity-onset diabetes, after an adequate trial of dietary therapy has proved unsatisfactory. CONTRAINDICATIONS: Glipizide is contraindicated in patients with: 1. Known hypersensitivity to the drug and 2. Diabetic ketoacidosis, with or without coma. This condition should be treated with insulin.

SPECIAL WARNING ON INCREASED RISK OF CARDIOVASCULAR MORTALITY: The administration of

SPECIAL WARNING ON INCHEASED HISA OF CARDITOVASCULAR MICHAELIT. THE ADMINISTRATION or oral hypoglycemic drugs has been reported to be associated with increased cardiovascular mortality as compared to treatment with diet alone or diet plus insulin.

As with any other non-deformable material, caution should be used when administering (DULOTROL XL Extended Release Tablets in patients with preexisting severe gastrointestinal narrowing (pathologic or introgenic). There have been rare reports of obstructive symptoms in patients with known strictures in association with the ingestion of another drug in this non-deformable sustained release formulation.

release formulation.

PRECAUTIONS: Renal and Hepatic Disease: The pharmacokinetics and/or pharmacodynamics of glipizide may be affected in patients with impaired renal or hepatic function. If hypoglycemia should occur in such patients, it may be prolonged and appropriate management should be instituted.

GI Disease: Markedly reduced GI retention times of the GLUCOTROL XL Extended Release Tablets may influence the pharmacokinetic profile and hence the clinical efficacy of the drug.

Hypoglycemia: All sullonylurea drugs are capable of producing severe hypoglycemia. Renal or hepatic insufficiency may affect the disposition of glipizide and the latter may also diminish gluconeogenic capacity, both of which increase

may affect fine disposition of giptized and the latter may also diffinitish giptized genic capacity, own of which increase the risk of serious hypoglycemic reactions. Elderly, debilitated or malnourished patients, and those with adrenal or pituitary insufficiency are particularly susceptible to the hypoglycemic action of glucose-lowering 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 glucose-lowering drug is used.

Loss of Control of Blood Glucose: When a patient stabilized on any diabetic regimen is exposed to stress such as

lever, trauma, infection, or surgery, a loss of control may occur. At such times, it may be necessary to discontinue glipizide and administer insulin. Adequate adjustment of dose and adherence to diet should be assessed before

classifying a patient as a secondary failure. **Laboratory Tests:** Blood and urine glucose should be monitored periodically. Measurement of hemoglobin A₁₀ may

Information for Patients: Patients should be informed that GLUCOTROL XL Extended Release Tablets should be

Information for Patients: Patients should be informed that GLUCOTROL XL Extended Release Tablets should be swallowed whole. Patients should not chew, divide or crush tablets. Patients should not be concerned if they occasionally notice in their stool something that looks like a tablet. In the GLUCOTROL XL Extended Release Tablet, the medication is contained within a nonabsorbable shell that has been specially designed to slowly release the drug so the body can absorb it. When this process is completed, the empty tablet is eliminated from the body. Patients should be informed of the potential risks and advantages of GLUCOTROL XL and of alternative modes of therapy. They should also be informed about 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 faiture also should be explained. Drug Interactions: The hypoglycemic action of sulfonylureas may be potentiated by certain drugs including nonsteroidal anti-inflammatory agents and other drugs that are highly protein bound, salicylates, sulfonamides, chloramphenicol, probenecid, cournarins, monoamine oxidase inhibitors, and beta-adrenergic blocking agents. chloramphenicol, probenecid, coumarins, monoamine oxidase inhibitors, and beta-adrenergic blocking agents. In vitro binding studies with human serum proteins indicate that glipizide binds differently than tolbutamide and does not interact with salicytate or dicumarol. However, caution must be exercised in extrapolating these findings to the clinical situation and in the use of glipizide with these drugs.

Certain drugs tend to produce hyperglycemia and may lead to loss of control. These drugs include 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 teading to severe hypoglycemia has been remorted. Whether this interaction, also occurs with the interacepous, busiest or vaginal generations of

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 Diffusan® 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 twenty month study in rats and an eighteen 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 were uniformly negative. Studies in rats of both sexes at doses up to 75 times the human dose showed no effects on fertility.

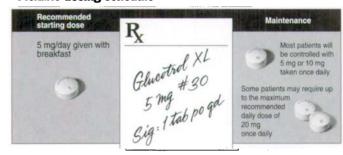
the human dose showed no effects on fertility.

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

Manterstangle: Effect: Prologned severe hypoglycemia (4 to 10 days) has been regorded in generates byth to.

Nonteratogenic Effects: Prolonged severe hypoglycemia (4 to 10 days) 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. If glipizide is used during pregnancy, it should be discontinued at least one month before the expected delivery date

Flexible dosing schedule



Nursing Mothers: Although it is not known whether glipizide is excreted in human milk, some sulfonylurea drugs are known to be excreted in human milk. A decision should be made whether to discontinue nursing or to discont the drug. If the drug is discontinued and if diet alone is inadequate for controlling blood glucose, insulin therapy chould be considered

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

Pediatric Use: Salety and effectiveness in children have not been established.

Geriatric Use: Of the total number of patients in clinical studies of GLUCOTROL XL, 33 percent were 65 and over.

No overall differences in effectiveness or safety were observed between these patients and younger patients, but greater sensitivity of some individuals cannot be ruled out. Approximately 1-2 days longer were required to reach steady state in the elderly. (See CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION).

ADVERSE REACTIONS: In U.S. controlled studies the frequency of serious adverse experiences reported was very low and causal relationship has not been established. The 580 patients from 31 to 87 years of age who received GLUCOTROL XL extended Release Tablets in doses from 5 mg to 60 mg in both controlled and open trials were included in the evaluation of adverse prepriences. All adverse experiences reported was tabulated inclandability of the evaluation of adverse prepriences.

included in the evaluation of adverse experiences. All adverse experiences reported were tabulated independently of their possible causal relation to medication

their possible causal relation to medication.

Hypoglycemia: See PRECAUTIONS and OVERDOSAGE sections.

In double-blind, placebo-controlled studies the adverse experiences reported with an incidence of 3% or more in GLUCOTROL XL-treated patients (N=279) and placebo-treated patients (N=59), respectively, include:

Astheria = 10.1% and 13.0%, Headache = 8.6% and 8.7%; Dizziness = 6.8% and 5.8%; Nervousness = 3.6% and 2.9%; Tremor = 3.6% and 0.0%; Flatulence = 3.2% and 1.4%.

The following adverse experiences occurred with an incidence of less than 3% in GLUCOTROL XL-treated patients: Body as a whole = pain; Nervous system = insomnia, paresthesia, anxiety, depression and hypesthesia; Gastrointestinal = nausea, dyspepsia, constipation and vomiting; Metabolic = hypoglycemia; Musculoskelat = arthaldia, leg cramps and myalgia; Cardiovascular = syncope; Skin = sweating and pruritus; Respiratory = rhinitis; Special senses = blurred vision; Urogenital = polyuria.

Other adverse sepriences occurred with an incidence of less than 1% in GLUCOTROL XL-treated patients: Body as a whole - chills; Nervous system - hypertonia, confusion, verition, somnolence, gait abnormality and

Body as a whole - chills; Nervous system - hypertonia, confusion, vertigo, somnolence, gait abnormality and decreased libido; Gastrointestinal - anorexia and trace blood in stool; Metabolic - thirst and edema; Cardiovascular activation in the eye, conjunctivitis and retrieve had been down as solon, inclasion of which and dyspnea; Special senses - pain in the eye, conjunctivitis and retinal hemorrhage; Irogenital - dysuria.

There have been rare reports of gastrointestinal irritation and gastrointestinal bleeding with use of another drug in

this non-deformable sustained release formulation, although causal relationship to the drug is uncertain.

The following are adverse experiences reported with immediate release glipizide and other sulfonylureas, but have not been observed with GLUCOTROL XL:

Hematologic: Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia, aplastic anemia, and

pancytopenia have been reported with sulfonylureas.

Metabolic: Hepatic porphyria and disulfiram-like reactions have been reported with sulfonylureas. In the mouse, glipizide pretreatment did not cause an accumulation of acetaldehyde after ethanol administration. Clinical experience to date has shown that glipizide has an extremely low incidence of disulfiram-like alcohol reactions.

Endocrine Reactions: Cases of hyponatremia and the syndrome of inappropriate antidiuretic hormone (SIADH)

DVERDOSAGE: Overdosage can produce hypoglycemia. Mild hypoglycemic symptoms without loss of consciousness or neurologic findings should be treated aggressively with or all plucose and adjustments in drug dosage and/or meal patterns. Close monitoring should continue until the physician is assured that the patient is out danger. Severe hypoglycemic reactions with coma, seizure, or other neurological impairment occur infrequently, but danger. Severe hypoglycemic reactions with coma, seizure, or other neurological impairment occur infrequently, but constitute medical emergencies requiring immediate hospitalization. If Hypoglycemic coma is diagnosed or suspected, the patient should be given rapid intravenous injection of concentrated (50%) glucose solution. This should be followed by a continuous influsion 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 glipizide from plasma may be prolonged in persons with liver disease. Because of the extensive protein binding of glipizide, dialysis is unlikely to be of benefit.

DOSAGE AND ADMINISTRATION: There is no fixed dosage regimen for the management of diabetes mellitus with GLUCOTROL XL Extended Release Tablet or any other hypoglycemic agent. In general, GLUCOTROL XL Should be eview with breafact

given with breakfast.

Recommended Dosing: The recommended starting dose of GLUCOTROL XL is 5 mg per day, given with breakfast. The recommended dose for geriatric patients is also 5 mg per day.

Dosage adjustment should be based on laboratory measures of glycemic control. While fasting blood glucose levels generally reach steady state following initiation or change in GLUCOTROL XL dosage, a single fasting glucose determination may not accurately reflect the response to therapy. In most cases, hemoglobin A_{1C} level measured at three month intervals is the preferred means of monitoring response to therapy. Hemoglobin A_{1C} should be measured as GLUCOTROL XL therapy is initiated at the 5 mg dose and repeated approximately three months later. If the result of this test suggests that glycemic control over the preceding three months was inadequate, the GLUCOTROL XL dose may be increased to 10 mg. Subsequent dosage adjustments should be made on the basis of hemoglobin A_{2C} levels measured at three month intervals. If no incrovement is seen

months was inadequate, the GLUCOTROL XL dose may be increased to 10 mg. Subsequent dosage adjustments should be made on the basis of hemoglobin Ar_C levels measured at three month intervals. If no improvement is seen after three months of therapy with a higher dose, the previous dose should be resumed. Decisions which utilize fasting blood glucose to adjust GLUCOTROL XL therapy should be based on at least two or more similar, consecutive values obtained seven days or more after the previous dose adjustment.

Most patients will be controlled with 5 mg or 10 mg taken once daily. However, some patients may require up to the maximum recommended daily dose of 20 mg. While the glycemic control of selected patients may improve with doses which exceed 10 mg, clinical studies conducted to date have not demonstrated an additional group average reduction of hemoglobin Ar_C beyond what was achieved with the 10 mg dose.

More detailed information available on request.

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Diabetes Care is a journal for the health-care practitioner that is intended to increase knowledge, stimulate research, and promote better management of people with diabetes mellitus. To achieve these goals, the journal publishes original articles on human studies in the areas of epidemiology, clinical trials, behavioral medicine, nutrition, education, health-care delivery, medical economics, and clinical care. The journal also publishes clinically relevant review articles, clinical observations, letters to the editor, and public health/medical news or points of view. Topics covered are of interest to clinically oriented physicians, researchers, epidemiologists, psychologists, diabetes educators, and other professionals.

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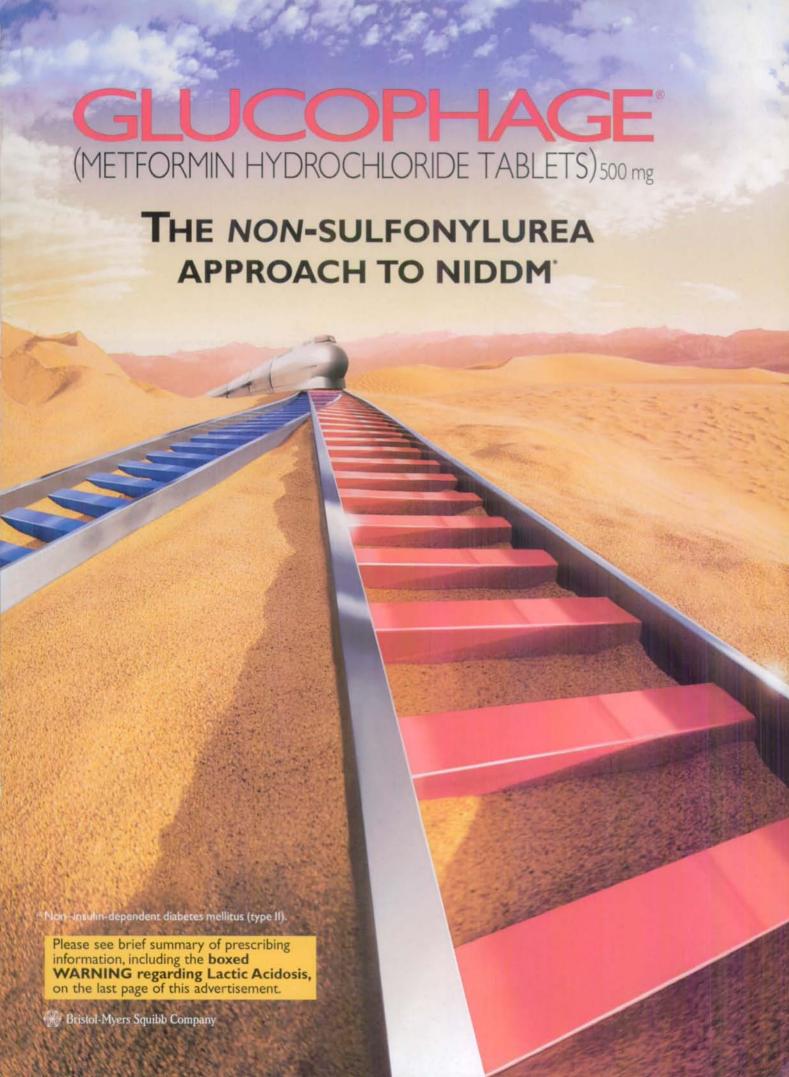


Nutrition Recommendations and Principles for People With Diabetes Mellitus, Position Statement of the American Diabetes Association, Diabetes Care, 1994;17:519

–522.

Franz MJ, Horron LS, Bartle JP, Beebe CA, Brunzell JD, Coulston AM, Henry RR, Hoogwerf BJ, Stacpoole PW. Nurration Principles for the Management of Diabetes and Related Complications. *Diabetes Care*. 1994;17:490–518.





THE NEW NON-SULFONYLUREA APPROACH TO NIDDM

BYPASSES THE PANCREAS WITH

GLUCOPHAGE lowers blood glucose levels without stimulating insulin secretion.

No effect on pancreatic beta cells or insulin secretion.

Does not produce hypoglycemia.1

GLUCOPHAGE is highly effective firstline drug therapy.²

Significantly decreases fasting plasma glucose (FPG) when used as an adjunct to diet.²

Mean difference in FPG compared to placebo

GLUCOPHAGE vs placebo

P=0.001

-59 mg/dL

Study 1: Results of a double-blind, placebo-controlled, multicenter trial over 29 weeks. 286 randomized NIDDM patients: GLUCOPHAGE, n=141; placebo, n=145. Average dosage of GLUCOPHAGE was 1,980 mg/day.²



DIRECT ANTIHYPERGLYCEMIC ACTION.

GLUCOPHAGE is synergistic in combination.²

Combining GLUCOPHAGE and a sulfonylurea with diet lowers FPG significantly more than monotherapy.²

Mean difference in FPG compared to monotherapy

GLUCOPHAGE plus glyburide vs glyburide alone

-77 mg/dL

P=0.001

Study 2: Results of a double-blind, placebo-controlled, parallel-group, multicenter trial comparing GLUCOPHAGE (n=210), glyburide (n=209), and the combination (n=213) over 29 weeks. 632 randomized NIDDM patients in whom glyburide monotherapy (20 mg/day) had failed to provide adequate control. Average dosage of GLUCOPHAGE was 2,050 mg/day as monotherapy and 1,894 mg/day in combination.³

GLUCOPHAGE produces modest improvements in key lipids.

Significantly reduces total cholesterol, LDL cholesterol, and triglycerides (*P*<0.05), and has a neutral effect on HDL cholesterol.

Improvement noted particularly when baseline lipid levels were elevated.

GLUCOPHAGE can help NIDDM patients keep their weight under control while lowering blood glucose.'

In contrast to sulfonylureas, body weight of individuals on GLUCOPHAGE tends to remain stable or decrease.

WITH DIET-ALONE OR WITH A SULFONYLUREA

GLUCOPHAGE

(METFORMIN HYDROCHLORIDE TABLETS) 500 mg

THE NON-SULFONYLUREA APPROACH TO NIDDM

Please see brief summary of prescribing information, including the boxed WARNING regarding Lactic Acidosis, on the last page of this advertisement.

THE NON-SULFONYLUREA APPROACH TO NIDDM

PROVIDES ESTABLISHED SAFETY AND OFFERS BID DOSING.

Safety established in over 3 million patient-years of experience.³

Mild and transient GI side effects are most common.

Diarrhea, nausea, vomiting, bloating, or flatulence may occur, especially during initiation of GLUCOPHAGE

- approximately 30% more frequent than with placebo[†]
- approximately 4% of patients discontinue therapy due to GI reactions.

Rare occurrence of lactic acidosis, a serious condition.

Approximately 0.03 cases per 1,000 patient-years reported worldwide

- · if cases occur, up to half may be fatal
- seen primarily in patients with renal insufficiency
- Patient Package Insert lists symptoms to be discussed with patients.

The UGDP study suggested increased cardiovascular risk with oral antidiabetics.

Appropriate patient selection is key.

Contraindicated in patients with renal disease or renal dysfunction and in patients with metabolic acidosis.

Temporarily withhold in patients receiving iodinated contrast materials for radiologic studies.

Avoid in patients with impaired hepatic function or excessive alcohol intake (acute or chronic).

Not recommended for children or pregnant women.

Recommended starting dosage: 500 mg bid with meals.

Increase dosage by one 500 mg tablet each week.

Minimize GI reactions by slow titration and administration with food

occasionally, temporary dose reduction may be useful.

Individualize dosage based on effectiveness and tolerance, up to a maximum of 2500 mg administered on a tid schedule.

GLUCOPHAGE

(METFORMIN HYDROCHLORIDE TABLETS) 500 mg

THE NON-SULFONYLUREA APPROACH TO NIDDM

References: I. GLUCOPHAGE Package Insert. 2. Data on file, Bristol-Myers Squibb Company, 3, Sirtori CR, Pasik C: Re-evaluation of a biguanide, metformin: mechanism of action and tolerability. Phormocol Res 30(3):187-228, 1994.

Please see brief summary of prescribing information, including the boxed WARNING regarding Lactic Acidosis, on the last page of this advertisement.

GLUCOPHAGE® (METFORMIN HYDROCHLORIDE TABLETS) 500 mg

CONTRAINDICATIONS: GLUCOPHAGE is contraindicated in patients with: 1. Renal disease or renal dysfunction (e.g., as suggested by serum creatinine levels 2.1.5 mg/dL [males], 21.4 mg/dL [females] or abnormal creatinine clearance) which may also result from conditions such as cardiovascular collapse (shock), acute myocardial clearance) which may also result from conduitors such as carolovascular collapse (shock), acute myocardinarction, and septicemia (see WARNINGS and PRECAUTIONS). 2 CLUOPHAGE should be temporarily withheld in patients undergoing radiologic studies involving parenteral administration of iodinated contrast materials, because use of such products may result in acute alteration of renal function. (See also PRECAUTIONS). 3. Known hypersensitivity to metformin hydrochloride. 4. Acute or chronic metabolic acidosis, including diabetic ketoacidosis, with or without coma. Diabetic ketoacidosis should be treated with insulin.

wannings: Lactic Acidosis: Lactic acidosis should be treated with insulin.

Wannings: Lactic Acidosis: Lactic acidosis should be treated with insulin.

Wannings: Lactic Acidosis: Lactic acidosis should be treated with insulin.

Wannings: Lactic Acidosis: Lactic acidosis is a rare, but serious, metabolic complication that can occur due to metformin accumulation during treatment with GLUCOPHAGE; when it occurs, it is fatal in approximately 50% of cases. Lactic acidosis may also occur in association with a number of pathophysiologic conditions, including diabetes melilitus, and whenever there is significant tissue hypoperfusion and hypoxemia. Lactic acidosis is characterized by elevated blood lactate levels (5.5 mmol/L), decreased blood pH, electrolyte disturbances with an increased anion gap, and an increased acidate/pyruvavare ratio. When metformin is implicated as the cause of lactic acidosis, metformin plasma levels > 5 µg/mL are generally found. The reported incidence of lactic acidosis in patients receiving metformin hydrochloride is very low (approximately 0.03 cases/1,000 patient-years). Reported cases have occurred primarily in diabetic patients with significant renal insufficiency, including both intrinsic renal disease and renal hypoperium, often in the setting of multiple concomitant medical/surgical problems and multiple concomitant medications. The risk of lactic acidosis increases with the degree of renal dysfunction and the patient's age. The risk of lactic acidosis may, therefore, be significantly item: the ability to clear lactate, GLUCOPHAGE should generally be avoided in patients with clinical or laboratory evidence of hepatic disease. Patients should be cautioned against excessions and intrinsical patients with clinical or laboratory evidence of hepatic disease. Patients should be cautioned against excession and intrinsical patients with clinical or laboratory evidence of hepatic disease. Patients should be temporarily discontinued prior to any intravascular radiocontrast study and for any sur

SPECIAL WARNING ON INCREASED RISK OF CARDIOVASCULAR MORTALITY: The administration of oral antidiabetic drugs has been reported to be associated with increased cardiovascular mortality as compared to treatment with

drugs has been reported to be associated with increased cardiovascular mortality as compared to be associated with increased cardiovascular mortality as compared to be associated with increased cardiovascular mortality as compared to the top the kidney, and the risk of metiornin accumulation and lactic acidosis increases with the degree of impairment of rend function. Thus, patients with serum creatinine levels above the upper limit of normal for their age should not receive GLUCOPHAGE. In patients with advanced age, GLUCOPHAGE should be carefully titrated to establish the minimum of the compared to the compared to the compared to the carefully titrated to establish the minimum of the compared to the compared to the compared to the carefully titrated to establish the minimum of the compared to the compa dose for adequate glycemic effect, because aging is associated with reduced renal function. In elderly patients, renal function should be monitored regularly and, generally, GLUCOPHAGE should not be titrated to the maximum dose (see DOSAGE AND ADMINISTRATION). Before initiation of GLUCOPHAGE therapy and at least annually thereafter, renal DOSAGE AND ADMINISTRATION). Before initiation of GLUCOPHAGE therapy and at least annually thereafter, renal function should be assessed and verified as normal. In patients in whom development of renal dynaction is anticipated, renal function should be assessed more frequently and GLUCOPHAGE discontinued if evidence of renal impairment is present. — Use of concomitant medications that may affect renal function or mettormin disposition — Concomitant medications (shat may affect renal function or result in significant hemodynamic change or may interfere with the disposition of GLUCOPHAGE, such as cationic drugs that are eliminated by renal tubular secretion (See Drug Interactions), should be used with caution. — Radiologic studies involving the use of Indinated accounts materials (for example, Intravenous urogram, Intravenous chotanglography, anglography, and scans with contrast materials) — Parenteral contrast studies with iodinated materials can lead to acute renal failure and have been associated with lactic acidosis in patients receiving GLUCOPHAGE (see CONTRAINDICATIONS). Therefore, in patients in whom any such study is planned, GLUCOPHAGE should be withheld for at least 48 hours prior to, and 48 hours subsequent to the progredure and reinstituted only after renal function be been re-evaluated and found to be normal whom any such study is planned, GLUCOPHAGE should be withheld for at least 48 hours prior to, and 48 hours subsequent to, the procedure and reinstituted only after renal function has been re-evaluated and found to be normal.

Hypoxie states — Cardiovascular collapse (shock) from whatever cause, acute congestive heart failure, acute myocardial infarction and other conditions characterized by hypoxemia have been associated with lactic acidosis and may also cause prerenal azoternia. When such events occur in patients on GLUCOPHAGE therapy, the drug should be promptly discontinued. — Surgical procedures — GLUCOPHAGE therapy should be temporarily suspended for any surgical procedure (except minor procedures not associated with restricted intake of food and fluids) and should not erestarted until the patient's oral intake has resumed and renal function has been evaluated as normal. — Alcohol Intake — Alcohol is known to potentiate the effect of metformin on lactate metabolism. Patients, therefore, should be warned against excessive alcohol intake, acute or chronic, while receiving GLUCOPHAGE. — Impaired hepatic function has been associated with some cases of lactic acidosis, GLUCOPHAGE should generally be avoided in patients with clinical or laboratory evidence of hepatic disease. — Vitamin B₁₂ levels — A decrease to subnormal levels of previously normal serum vitamin B₁₂ levels, without clinical manifestations, such decrease, possibly due to interference with B₁₂ absorption from the B₁₂-intrinsic factor complex, is, however, very rarely associated with anemia and appears to be rapidly reversible with discontinuation of GLUCOPHAGE or vitamin B₁₂ supplementation. Measurement of hematologic parameters on an annual basis is advised in patients on GLUCOPHAGE. rarely associated with anemia and appears to be rapidly reversible with discontinuation of GLUCOPHAGE or vitamin B₁₂ supplementation. Measurement of hematologic parameters on an annual basis is advised in patients on GLUCOPHAGE and any apparent abnormalities should be appropriately investigated and managed (see Laboratory Tests). Certain individuals (those with inadequate vitamin B₁₂ or calcium intake or absorption) appear to be predisposed to developing subnormal vitamin B₁₂ levels. In these patients, routine serum vitamin B₁₂ measurements at two-tine three-year intervals may be useful. — Change in clinical status of previously controlled diabelic — A diabetic patient vitamin B₁₂ devels in the controlled on GLUCOPHAGE who develops laboratory abnormalities or clinical illness (especially vague and poorly defined illness) should be evaluated promptly for evidence of ketoacidosis or lactic acidosis. Evaluation should include serum electrolleges and kingless blond directed blond all lactate with a lactate or with a service and materials laured in the controllege and kingless of the controlleges and kingless of the controlleges and kingless blond directed blond and lactate or without a service and materials laured in the controlleges and kingless of the control controlled on GLUCOPHAGE who develops laboratory abnormalities or clinical illness (especially vague and poor) defined illness) should be evaluated promptly for evidence of ketoacidosis or lactic acidosis. Evaluation should include serum electrolytes and ketones, blood glucose and, if indicated, blood pH, lactate, pyruvate and metformin levels. If acidosis of alther form occurs, GLUCOPHAGE must be stopped immediately and other appropriate corrective measures initiated (see also WARNINGS). — Hypoglycemia — Hypoglycemia does not occur in patients receiving GLUCOPHAGE alone under usual circumstances of use, but could occur when caloric intake is deficient, when strenu ose sercises is not compensated by caloric supplementation, or during concomitant use with other glucose-lowering agents (such as sulfonylureas) or ethanol. Elderly, debilitated or malnourished patients, and those with adrenal or plulary insufficiency or alchool intoxication are particularly susceptible to hypoglycemia me with other glucose-lowering agents (such as sulfonylureas) or ethanol. Elderly, debilitated or malnourished patients, and those with adrenal or plulary insufficiency or alchool intoxication are particularly susceptible to hypoglycemia me with other glucose-lowering agents (such as sulfonylureas) or ethanol. Elderly, debilitated or malnourished patients, and those with adrenal or plulary insufficiency or alchool intoxication are particularly susceptible to hypoglycemia me to the deficient of the sufficient of the sufficient or surgery, a temporary loss of glycemic control may occur. At such times, it may be necessary to withhold GLUCOPHAGE and temporarily administer insulin. GLUCOPHAGE may be reinstituted after the actue episode is resolved. The effectiveness of oral antidiabetic drugs in lowering blood glucose to a targeted level decreases in many patients over a period of time. This phenomenon, which may be due to progression of the underlying disease or to diminished responsiveness to the drug, is known as secondary failure, to di

ment, as noted in the WARNINGS and PRECALTIONS sections should be explained to patients. Patients should be advised to discontinue Coll LICOPHAGE" (retformin hydrochlorde tablets) immediately and to promothy notify their health practitioner if unexplained hyperventitation, mytaje, mabais, unusual somnolence or other nonspecific symptoms, cozur. Once a patient is stabilized on any dose level of GLUCOPHAGE, gastrointestinal symptoms, which are common during initiation of theray, are unlikely to be during patient Later occurrence of gastrointestinal symptoms, could be due to lactic acidosis or other serious disease. Patients should be counselled against excessive alcohol intake, either acute or chronic, while reselving GLUCOPHAGE is used in conjunction with oral sulfonylurase. When initiating combination therapy, the ricks of hypoglycemia, although it may occur when GLUCOPHAGE is used in conjunction with oral sulfonylurase. When initiating combination therapy, the ricks of hypoglycemia, although it may occur when GLUCOPHAGE is used in conjunction with oral sulfonylurase. When initiating combination therapy, the ricks of hypoglycemia, although it may occur when GLUCOPHAGE is used in conjunction with oral sulfonylurase. When initiating combination therapy, the ricks of hypoglycemia, although it is patient to be explained to patients. General patients of the confidence of the confi ment, as noted in the WARNINGS and PRECAUTIONS sections should be explained to patients. Patients should be Teratogenic effects — Pregnancy Category B. Safety in pregnant women has not been established. Metformin was not teratogenic in rats and rabbits at doses up to 600 mg/kg/day, or about two times the maximum recommended human daily dose on a body surface area basis. Determination of fetal concentrations demonstrated a partial placental human daily dose on a body surface area basis. Determination of fetal concentrations demonstrated a parial placental barrier to metformin. Because animal reproduction studies are not always predictive of human response, any decision to use this drug should be balanced against the benefits and risks. Because recent information suggests that abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital abnormal blood glucose levels as close to normal as possible. — Mursing Mothers: Studies in lactating pregnancy to maintain blood glucose levels as close to normal as possible. — Mursing Mothers: Studies in lactating pregnancy to maintain blood glucose levels as close to normal as possible. — Mursing Mothers: Studies in lactating pregnancy to maintain blood glucose levels as close to normal as possible. — Mursing Mothers: Studies have not been conducted in nursing mothers, but caution should be exercised in such patients, and a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. — Pediatric Use: Safety and effectiveness in children have not been established. Studies in maturity-onset diabetes of the young (MODY) have not been conducted. — Garlatric Use: Controlled clinical studies of GLUCOPHAGE did not include sufficient numbers of electry patients to determine whether they respond differently from younger patients, although other reported clinical experience has not identified differences in responses between the elderly and younger patients. GLUCOPHAGE is known to be substantially excreted by the kidnor and because the risk of serious adverse reactions to the drug is greater in patients with imparied renal function, it should only be used with caution as age increases. Care should be taken in dose selection and should be based on careful and regular monitoring of renal function. General

AND ADMINISTRATION).

ADVERSE REACTIONS: Lactic Acidosis: See WARNINGS, PRECAUTIONS and OVERDOSAGE Sections, — GastroIntestinal Reactions: Gastrointestinal symptoms (diarrhea, nausea, vomiting, abdominal bloating, flatulence, and anoraxia) are the most common reactions to GLUCOPHAGE and are approximately 30% more frequent in patients on GLUCOPHAGE monotherapy than in placebo-treated patients, particularly during initiation of GLUCOPHAGE therapy. These symptoms are generally transient and resolve spontaneously during continued treatment. Occasionally, temporary dose reduction may be useful. In controlled trials, GLUCOPHAGE was discontinued due to gastrointestinal reactions in approximately 4% of patients. Because gastrointestinal symptoms during therapy initiation appear to be dose-related, they may be decreased by gradual dose escalation and by having patients take GLUCOPHAGE with meals (see DOSAGE ANO ADMINISTRATION). Because astrointestinal symptoms should not be attributed to the proper and azotemia, under such circumstances, GLUCOPHAGE should be temporarily discontinued. For patients who have been stabilized on GLUCOPHAGE, onospecific gastrointestinal symptoms should not be attributed to therapy undersome stabilized on GLUCOPHAGE, onospecific gastrointestinal symptoms should not be attributed to therapy and proximately 3% of patients may complain of an unpleasant or metallic taste, which usually resolves spontaneously. — Dermatologic Reactions: The incidence of rash/dermatitis in controlled clinical trials was comparable to placebo for GLUCOPHAGE monotherapy and 6% of patients on GLUCOPHAGE/sulfronylurea therapy. — Hermatologic: (See also PRECAUTIONS). During controlled clinical trials of 29 weeks duration, approximately 9% of patients on GLUCOPHAGE monotherapy and 6% of patients on GLUCOPHAGE/sulfonylurea therapy developed asymptomatic subnormal serum vitamin 8₁₂ levels; serum folic acid levels did not decrease significantly. However, only five cases of megaloblastic anemia have been reported with metfor ADVERSE REACTIONS: Lactic Acidosis: See WARNINGS, PRECAUTIONS and OVERDOSAGE Sections. — Gastroin-

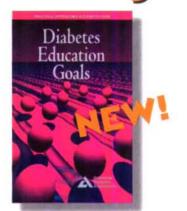
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FRIDAY, JANUARY 19

General Session: Issues in Diabetes Care - Part I

Novel Pharmacological Treatments for NIDDM

Physiologic Insulin Replacement: Meeting The Challenge

Does Exogenous Insulin Cause Macrovascular Disease in NIDDM?

Standardization of the HbA_{1c} Assay

Diabetes Prevention Program: Purpose and Study Design

General Session: Issues in Endocrinology

Management of Hyperthyroidism

Endocrine Disorders and Their Relationship to Sexual Dysfunction

Clinical Utility of Growth Hormone Administration in Adults

Diagnosis and Management of Cushing Syndrome

SATURDAY, JANUARY 20

General Session: Nutrition and Obesity

The Control of Food Intake and Body Weight

The Genetics of Obesity

The Pharmacological Treatment of Obesity

Should We Pay Attention to Micronutrients in the Diet?

Treatment of Eating Disorders in Diabetes



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Concurrent Workshops:

Blood Glucose Awareness Training

Intensive Therapy and Weight Issues in Children and Adolescents

What Are Appropriate Outcome Measures for Diabetes Care and Education?

Recognizing and Treating Depression in Diabetes

Controversies in Gestational Diabetes

Using the New Nutrition Tools in Clinical Practice

Carbohydrate Counting in Diabetes Management

SUNDAY, JANUARY 21

General Session: Issues in Diabetes Care - Part II

Delivery of Diabetes Care in a Managed Care Setting

New Technologies to Measure Blood Glucose

Report of the Workgroup to Revise the Diagnosis and Classification of Diabetes

Female Sexual Dysfunction in Diabetes

Hormonal Replacement Therapy in Postmenopausal Women with Diabetes

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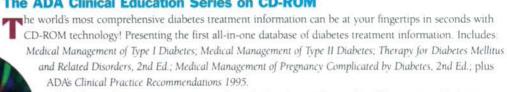
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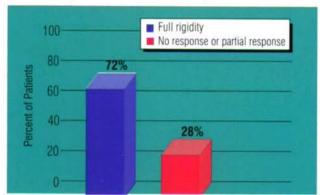
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Is a Profound Problem
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EFFECTIVE RESULTS

Overall response to CAVERJECT by clinical evaluation²



From the open-label, dose-escalation phase of a multicenter, randomized, double-blind, placebo-controlled crossover study. Of 153 patients randomized into the study, 105 patients completed the dose-ranging phase and entered the self-injection phase.

- 72% EFFECTIVE IN OFFICE: 76 of 105 patients titrated to an optimum dose received at least one evaluation of full rigidity.*2 Placebo produced no response in the double-blind arm of the study.²
- 89% EFFECTIVE AT HOME: In the 4-week self-injection arm of the study, 91 of 102 patients reported a response to injections at home. At-home therapy requires proper training of the patient in self-injection.
- EFFECTIVE THERAPY: Intracavernosal injection therapy with CAVERJECT is indicated in patients with erectile dysfunction due to vasculogenic, neurogenic, psychogenic, or mixed etiology.^{12,3}

^{*}Assessments of erection response were recorded at 5, 10, 15, 30, and 120 minutes after injection.

Patients previously received self-injection training and titration to an optimum dose (a dose that induced an erection sufficient for intercourse). Response was defined as a full or partial erection leading to satisfactory intercourse.

^{*}Underlying treatable medical causes of erectile dysfunction should be diagnosed and treated prior to initiating therapy with CAVERJECT. CAVERJECT is contraindicated in men with known hypersensitivity to the drug or conditions that might predispose them to priapism, and in men with penile implants or anatomical deformities of the penis.

[§] Patients should contact their physician or seek immediate medical assistance if an erection persists longer than 6 hours.

In one self-injection clinical study where duration of use was up to 18 months, the incidence of fibrosis was 7.8%.

Please see adjacent page for brief summary of prescribing information.

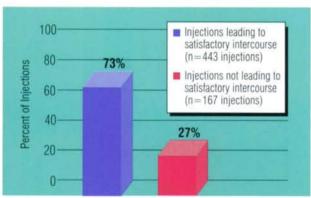


New CAVERJECT for Erectile Dysfunction

Proven Effective
Pharmacologic Treatment
Regardless of Etiology

PATIENT ASSESSMENT

Patient assessment of sexual activity2



From a 4-week, open-label, self-injection study.

443 of 610 injections (73%) were rated by patients as resulting in satisfactory intercourse.²

SAFETY CONSIDERATIONS

- Dosing should be titrated under physician supervision to minimize the possibility of priapism.
- Mild to moderate penile pain was reported at least once by 37% of patients in clinical trials of up to 18-months' duration.
- Among patients reporting pain, not every injection was associated with it. Of 21,490 injections studied, 11% were pain-related.⁴
- The overall incidence of penile fibrosis reported in clinical studies was 3%. ■



Caverjection

alprostadil for injection

PROVEN EFFECTIVE TREATMENT



Proven Effective Treatment

CAVERJECT contains alprostadil, the naturally occurring form of prostaglandin E1 (PGE1) and is available in a single-dose system with a self-locking case for safe disposal. Each system includes a disposable syringe prefilled with diluent, a vial of 10 or 20 mcg of CAVERJECT Sterile Powder, two alcohol swabs, plus a patient instruction leaflet.

The reconstituted vial of CAVERJECT is for single use only. Patients must properly discard needles after one use and never share them. Because injections may cause a small amount of bleeding at the injection site, patients should be counseled about the protective measures necessary to guard against sexually transmitted diseases.



CAVERJECT® Sterile Powder (brand of alprostadil for injection)

For Intracavernosal Use

INDICATIONS AND USAGE

Treatment of erectile dysfunction due to neurogenic, vasculogenic, psychogenic, or mixed etiology; also an adjunct to other diagnostic tests in the diagnosis of erectile dysfunction.

Known hypersensitivity to the drug; conditions that might predispose the patient to priapism, such as sickle cell anemia or trait, multiple myeloma, or leukemia; anatomical penile deformity, such as angulation, cavernosal fibrosis, or Peyronie's disease; and penile implants. Do not use CAVERJECT in women, children, or newborns or in men who should not engage in sexual activity.

ineral Precautions: Priapism (erection lasting over 6 hours) can occur. Instruct the patient to immediately report other a Precautions. <u>Phappart</u> (execution fasting over 8 hours; act a occur, instruct the patient to infinitelately report and seek medical assistance for any erection that lasts longer than 6 hours. Treat priagism according to established medical practice. <u>Penile fibrosis</u>, including Peyronie's disease, occurred in 3% of patients in clinical studies (incidence was 7.8% in one 18-month study). Use regular patient follow-up, with careful examination of the penis, to detect signs of penile fibrosis. Stop treatment with CAVEX_JECT in patients who develop penile angulation, cavernosal fibrosis, or Peyronie's disease. <u>Anticoagulant therapy</u> (such as warfarin or heparin) may increase the tendency for bleeding after injection.

Diagnose and treat underlying treatable medical causes of erectile dysfunction before starting therapy with CAVERJECT. CAVERJECT combined with other vasoactive agents was not systematically studied; the use of such combinations is not recommended. Instruct the patient not to reuse or share needles or syringes and not to let anyone else use

Patient Information: Thorough training in self-injection technique is required before CAVERJECT can be used at home. The dose is established in the physician's office. Carefully follow preparation instructions included with each package of CAVERJECT. Discard vials with precipitates or discoloration. The vial is designed for single use; Discard vials with precipitates or discoloration. The vial is designed for single use; therefore, discard the vial and any remaining solution once the proper amount is withdrawn. Properly discard needle after use; do not reuse or share with others. Do not change the prescribed dose without physician consultation. CAVERJECT should produce an erection is to 20 minutes. Generally, do not exceed an injection frequency of three times per week; separate each use by at least 24 hours. Patients should know the possible side effects of CAVERJECT and what to do it side effects occur. Patients must return for regular check-ups for treatment benefit and safety assessments. Counsel patients about protective measures necessary to guard against the spread of sexually transmitted diseases, including the human immunodeficiency virus (HIV). The small amount of injection-site bieding that can occur in some patients (see ADVERSE REACTIONS) could increase the risk of transmitting blood-borne diseases between partners.

Drug Interactions: In clinical trials, concomitant use of antihypertensive drugs, diuretics, antidiabetic agents (including insulin), or nonsteroidal anti-inflammatory drugs had no effect on the efficacy and safety of CAVERJECT. Pharmacokinetic drug-drug interactions between alprostadil and other agents were not formally studied.

Carcinogenesis, Mutagenesis, and Fertility Impairment: Long-term carcinogenicity studies were not conducted. Alprostadil did not adversely affect or alter spermatogenesis in rats. Mutagenicity tests revealed no potential for mutagenesis. In a 1-year irritancy study in monkeys, there was no evidence of drug-related penile irritancy or nonpenile tissue tesions that could be directly related to alprostadil; any lesions noted were reversible; and histologic changes in the penis had regressed at the end of the 4-week recovery period.

PREGNANCY, NURSING MOTHERS, AND PEDIATRIC USE CAVERJECT is not for use in newborns, children, or worne

ADVERSE REACTIONS

Local Reactions: Reported by 1% or more of patients treated with CAVERJECT (n=1,861); penile pain (33%, compared with 2% of 294 patients injected with placebo); prolonged erection (4%); penile fibrosis (3%, see PRECAUTIONS); injection-site thematoma (3%); penile sidoorder (3%, includes numbness, yeast infection, irritation, sensitivity, philmosis, pruntus, erythema, venous leak, penile skin tear, strange feeling of penis, penile head discoloration, and tich at tip of penis; injection-site echymosis (2%); penile rash (1%); and penile dedma (1%). Penile pain was mild or moderate in intensity in most cases; 3% of patients stopped treatment because of penile pain. In most cases, spontaneous deturnescence followed prolonged erection (erection that lasts do 6 hours) and priagism (erection that lasts longer than 6 hours; 0.4% in clinical trials). Titrate CAVERJECT slowly to the lowest effective dose to minimize the chance of prolonged erection or priapism (see DOSAGE AND ADMINISTRATION). Instruct the patient to immediately report and seek medical assistance for any erection that persists longer than 6 hours. Failure to treat priapism immediately may result in penile tissue damage and permanent loss of potency. Most cases of hematoma and ecchymosis were attributed to faulty injection technique. Local reactions reported by lass than 1% of patients: balantis, injection-site edema; urethral bleeding; penile warmth; numbness; yeast infection; irritation; sensitivity; philmosis; printipus erythema; venous leak; painful erection; and abnormal jaiculation.

Systemic Events: Reported by 1% or more of patients treated with CAVERJECT (n=1,861): upper respiratory tract infection (4%); hypertension (2%); headache (2%); hus syndrome (2%); sinusite (2%); prostato disorder (2%, disciness (1%); back pain (1%); nasal congestion (1%); and cough (1%). Systemic events ludged by investigators to be possibly related to the use of CAVERJECT were reported for less than 1% of patients and included testicular pain, scrotal di

scrotal edema, hematuria, testicular disorder, impaired urination, urinary frequency, urinary urgency, pelvic pain, hypotension, vasodilation, peripheral vascular disorder, supraventricular extrasystole, vasovagal reactions, hypesthesia, nongeneralized weakness, non-application-site pruritus, skin neoplasm, nausea, dry mouth, increased serum creatinne, leg cramps, and mydriasis. Blood pressure decreases and pulse rate increases were observed in clinical studies and appeared to be dose related (seen principally at doses above 20 micrograms and above 30 micrograms of alprostadil, respectively); changes were usually clinically unimportant (3% of patients stopped because of symptomatic hypotension). CAVERJECT had no clinically important effect on serum or unine laboratory tests.

OVERDOSAGE

Coveriget 20 mcg disp: 1x6 systems

Six: Use as directed

Kepel x 3

overhoosets if infracavernous overdose with CAVERJECT occurs, place patient under medical supervision until any systemic effects have resolved and penile detumescence has occurred. Symptomatic treatment of systemic symptoms is

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION

Individualize each patient's dose by careful physician-supervised titration, following the initial titration guidelines in the product package insert. Boses greater than 60 micrograms are not recommended. In general, use the lowest possible effective dose. A 1/2-inch, 27- to 30-gauge needle is generally recommended. In general, use the lowest possible effective dose. A 1/2-inch, 27- to 30-gauge needle is generally recommended. In the product package insert: gosage titration instructions that appear in the product package insert: gosage titration instructions differ depending on erectile dysfunction etiology. In one clinical study, 55% of patients were titrated to doses of greater than 5 micrograms but less than or equal to 20 micrograms; the mean dose at the end of titration was.

but less than or equal to 20 micrograms; the mean dose at the end of titration was 17.8 micrograms.

Maintenance Therapy. Properly instruct and train the patient in the self-injection technique, and carefully assess the patient's skills and competence with this procedure before starting self-injection therapy. The dose selected for self-injection therapy should provide an erection that is satisfactory for sexual activity and is maintained for no longer than 1 hour. Reduce the dose if the erection lasts longer than 1 hour. Dose adjustments for self-injection, if required, should only be made with physician consultation and should follow initial titration guidelines. CAVERJECT was effective for up to 6 months was 20.7 micrograms. Exercise careful and continuous follow-up of patients on self-injecton therapy, especially for initial self-injections. Recommended injection frequency is no more than three times weekly, with at least 24 hours between uses. Instruct the patient in the proper disposal of the syringe, needle, and single-use vial. See the patient every 3 months during self-injection therapy to assess treatment and, if needed, to adjust the dose.

CAVERJECT as an Adjunct to the Diagnosis of Erectile Dysfunction: In pharmacologic diagnostic testing for erectile dysfunction, monitor patients for the occurrence of an erection after an intracavernosal injection of CAVERJECT. Use CAVERJECT as an adjunct to laboratory investigations to allow visualization and assessment of penile vasculature. For these tests, use a single dose of CAVERJECT that induces a firm and rigid erection.

Solution Preparation: Refer to product package insert for reconstitution instructions.

One mL of sterile water preserved with 0.945% w/v berzy/ alcohol or bacteriostatic water for injection with benzyl alcohol must be used for reconstitution. Use the solution immediately after reconstitution; do not store or freeze. Inspect reconstituted solution visually for particulate matter.

HOW SUPPLIED

CAVENIECT is a dry, lyophilized powder in vials containing 11.9 micrograms or 23.2 micrograms of alprostadil for intracavernosal administration (10 or 20 micrograms, respectively, of deliverable alprostadil when reconsti-tuted as directed). Use only the accompanying diluent or bacteriostatic water for injection with benzyl alcohol to reconstitute CAVERJECT. Use reconstituted solution immediately; do not store or freeze.

6—10-microgram vials with diluent syringe - NDC 0009-3778-08 6—20-microgram vials with diluent syringe - NDC 0009-3701-01

CAUTION: Federal law prohibits dispensing without a prescription

Store vials at refrigerated temperatures of 2°C to 8°C (36°F to 46°F) until dispensed. After dispensing, unused packages of CAVERJECT Sterile Powder may be stored up to 3 months at or below 25°C (77°F).

B-1-S

References

- 1. The NIH Consensus Development Panel on Impotence. The NIH Consensus Conference: impotence. JAMA. 1993;270:83-90.

- Data on file, TR9124-93-006. The Upjohn Company, Kalamazoo, Mich.
 Data on file, TR9124-93-005. The Upjohn Company, Kalamazoo, Mich.
 Data on file, NDA Application Summary, Item 2, Vol 1.2. The Upjohn Company, Kalamazoo, Mich.



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They've also been expanded to include new products on the market, such as reduced fat or fat-free versions of foods, as well as vegetarian alternatives to meat products. And the combination foods list now includes fast foods.

The revised Exchange Lists reflect the 1994 ADA Nutrition Recommendations emphasis on the amount of carbohydrate consumed rather than the type of carbohydrate. This gives patients greater flexibility in choosing their foods at each

> meal. They can now interchange fruit, starch, and milk lists. They can even include "other carbohydrates", such as cake, into their overall meal plan. Nutrition Tips with each list give patients an overview of the nutrient content of those foods, while Selection

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- Meat and Meat Substitutes Group: includes the new Very Lean Meat list of foods containing 1 gram or less of fat and no more than 35 calories per serving.

EXCHANGE LISTS

■ Fat Group: now has 3 lists - monounsaturated, polyunsaturated, and saturated fats; encourages use of foods containing monounsaturated fat.

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- 2. Abstracts are not eligible if the paper has been presented at another national or international meeting or has been accepted for publication before the abstract submission deadline and will be published prior to the 56th Scientific Sessions. Failure to notify the Association of the publication of an abstract will result in a moratorium on the submission of abstracts for all authors appearing on the abstract in question for one year.
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COMPLETING THE FORMS

- 12. Accepted abstracts will be reduced by 25% and photographed as submitted for publication in the 56th Abstract Book, the May supplement to *Diabetes*. We recommend using a font no smaller than 10 points.
- 13. The text must be clear, within the border of the form, and limited to the space provided. Use only a typewriter or laser printer, as the quality of dot matrix printers varies considerably. Those with text exceeding the border will not be accepted. Text glued or taped inside the border will be accepted. Please use the following tips when printing your abstract:
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- e. Author(s) who have indicated "yes" on the *Duality of Interest* form (see page 6) must include a notation after their name(s). Use the following to indicate the type of duality: 1 = employment; 2 = membership on board of directors; 3 = stock/shareholder; 4 = honoraria or consulting fees; 5 = grant/research support; 6 = other.
- f. Do not list credentials, degrees, academic title(s) (e.g., MD, RN, RD), departments, divisions, or institutional affiliation(s) on the abstract form.
- g. Include city and state (postal abbreviations) or country of origin of work; do not include street address and zip code.

Example of abstract heading:

A Novel Form of Chelatin Prevents IDDM in BB Rats. JOHN DOE¹, JAMES E. REASONER, SUSAN SMITH³, JANE FRIDAY⁶, Alexandria, VA

- 15. The first line of the text of the abstract and first line of any subsequent paragraphs should be indented three spaces.
- 16. The use of standard abbreviations is requested. Examples include kg, g, mg, ml, L (liter), meq, m (meter), mM (millimoles per liter), / (per), and % (percent). Place special or unusual abbreviations in parentheses after the full word the first time it appears, then use the abbreviation throughout the rest of the abstract. Use numerals to indicate numbers, except when beginning sentences.
- 17. Nonproprietary (generic) names should be used the first time a drug is mentioned and typed in lowercase letters; names are always capitalized, for example, aspirin (Bufferin).
- 18. Simple tables or special symbols may be included if they fit within the border of the form. Material that cannot be typed should be drawn in India ink.
- 19. Do not include references, credits, or grant support information in the abstract.
- 20. The Scientific Sessions Meeting Committee will consider presentation preference when planning the program. An abstract marked as "Only" (see Forms, pages 3 and 5) indicates that the authors do not want an abstract considered for any other type of presentation. For example, if an abstract is marked as "Oral Only" and is not selected for an oral presentation, the committee will not place the abstract in a poster session. Marking an abstract as "Oral Only" will not guarantee its selection for the program.
- 21. Categories for the 56th Scientific Sessions are located on page 4. Indicate the appropriate category under which you wish to have the abstract reviewed on both Form A and Form B. The Scientific Sessions Meeting Committee reserves the right to move an abstract that has been inappropriately categorized without notifying the author(s).
- 22. Provide two key words for program indexing on Form A in the spaces provided.
- 23. The signature of an <u>active</u> member of the Professional Section of the American Diabetes Association is required to validate the abstract. Members who sponsor non-members should verify that the latter are conforming to the rules. A member is not limited to the number of abstracts he/she can sponsor.
- 24. All authors must read and sign the *Duality of Interest* form (page 6) and this form <u>must</u> be included with <u>each</u> abstract submitted. Please refer to #14e for instructions on noting dualities on the abstract form. When preparing abstracts, please allow enough time to have <u>all</u> authors sign the <u>original</u> form.
- 25. Provide the information requested for the corresponding author, who will receive notification of abstract status (#29).
- 26. If the research presented in this abstract has been supported, in whole or in part, by a grant from the American Diabetes Association, please indicate so by checking on the appropriate line. Accepted abstracts with Association funding will be highlighted in the Final Program of the 56th Scientific Sessions. The response provided to this question will not affect the acceptance of abstracts for the 56th Scientific Sessions.

27. Before mailing an abstract submission, use the checklist on page 7 to confirm that all instructions have been followed and all items have been included in the submission packet.

ACKNOWLEDGEMENT OF RECEIPT AND ABSTRACT STATUS

- 28. For acknowledgment that an abstract was received at the Association, provide a self-addressed, <u>US stamped</u> postal card addressed to the corresponding author. The reverse side of the card should indicate the title of the abstract. Confirmation of receipt cannot be made by phone.
- 29. A letter of notification and appropriate accompanying materials will be sent by mail to the corresponding author. In addition, all international correspondence will be sent by Internet E-mail or fax.

MAILING SUBMISSION

- 30. A non-refundable processing fee of US\$35.00 and a completed payment form (see page 7) must accompany each abstract submitted to the American Diabetes Association. Payment must be in the form of a check or credit card. Checks must be in U.S. funds and drawn on a U.S. bank, and made payable to the *American Diabetes Association*. Major credit cards (American Express, VISA, MasterCard) are also accepted. Purchase orders and money orders will not be accepted.
- 31. The review of abstracts is blinded, therefore two forms must be submitted: one (1) for publication (Form A) with the title and author(s)' name(s) within the border of the form, and one (1) for review (Form B) without author information. Please refer to Abstract Forms A and B on pages 3 and 5 for further instructions.
- 32. Five (5) copies of the <u>front only</u> of <u>each</u> form must also be provided for processing.
- 33. <u>Do not</u> fold the originals or copies. They should be mailed FIRST CLASS or AIR MAIL, when applicable, and addressed as follows: Scientific Sessions Meeting Committee, American Diabetes Association, P.O. Box 26427, Alexandria, VA 22313-6427, USA. Abstracts sent by express mail should be addressed as follows: Scientific Sessions Meeting Committee, American Diabetes Association, 1660 Duke Street, Alexandria, VA 22314-3447, USA. When shipping express mail, do not ship for a Saturday arrival. Abstracts will not be accepted for review if sent via fax.

"LATE-BREAKING RESEARCH" ABSTRACTS

34. A new abstract classification has been established to allow the submission of "late-breaking research" abstracts. Abstracts will be peer-reviewed, and only those deemed **highly meritorious** will be accepted for presentation. Selected abstracts will be presented during the President's Poster Session. "Late-breaking research" abstracts will not be published in the Abstract Book, nor will they appear in the Final Program because of printing deadlines. Authors should use the forms and follow instructions found in this packet. The appropriate box on Form A must be checkmarked, and all submissions must be received by May 10, 1996. The processing fee for abstracts in this classification is \$50. "Late-breaking research" abstracts must be sent to the attention of Jill Thompson, American Diabetes Association, 1660 Duke Street, Alexandria, VA 22314-3447 USA. Notification of abstract status will be provided no later than May 24, 1996.

TYPE ABSTRACT WITHIN BOX	FOR OFFICE USE ONLY
TYPE ABSTRACT WITHIN BOX	Date Rec'dPMT? Abstract No Duality Signed?YN AS/400 ID No New Record? American Diabetes Diabetes FORM A (For publication)
	CHECK ONE (#21, pg 2): Poster Session
	(Categories listed on pg 4) Provide two key words for program index: 1. 2. IMPORTANT This form must be signed by an active member of the Professional Section of the American Diabetes Association. The instructions on pages 1 and 2 must be followed exactly for abstracts to be considered for review.
List family name, first name, middle initial, credentials/degrees, address (including city/state/country/zip), and telephone/fax numbers of author who should receive correspondence (please type or print):	The sponsoring member agrees that the material submitted herein conforms with the instructions on pages 1 and 2.
Family Name	MEMBER SIGNATURE
First NameMI	PRINTED NAME
Credentials/DegreesDepartment	
Institution	
Street Address	
CityStateCountry	<u> </u>
Phones (include area code/country code): Work:Fax:	
Has this research been supported, in whole or in part, by a grant from the American D	viabetes Association?YN
Internet E-mail address:	

PLEASE LEAVE THIS AREA BLANK

1996 ABSTRACT CATEGORIES

Select **one** two-digit category number and enter it on the appropriate line on both Abstract Form A and Abstract Form B:

- 01 Clinical Diabetes
- 02 Complications, Hypoglycemia and Other
- 03 Complications, Macrovascular
- 04 Complications, Nephropathy
- 05 Complications, Neuropathy
- 06 Complications, Retinopathy
- 07 Diabetes Education
- 08 Epidemiology
- 09 Foot Care

- 10 Forms of Therapy/New Technology
- 11 Gene Regulation
- 12 Genetics
- 13 Health Care Delivery
- 14 Hormones, Not Insulin
- 15 Immunology
- 16 Insulin Action
- 17 Insulin Synthesis/Secretion
- 18 Lipids/Lipoproteins

- 19 Metabolism, in vitro
- 20 Metabolism, in vivo, animals
- 21 Metabolism, in vivo, humans
- 22 Nutrition/Obesity/Exercise
- 23 Pregnancy
- 24 Psychosocial/Behavioral Medicine
- 25 Signal Transduction
- 26 Transplantation

56th SS

ONLY TYPE ABSTRACT TITLE AND ABSTRACT WITHIN **FOR OFFICE USE ONLY** BOX; DO NOT TYPE AUTHOR(S)' NAMES OR LOCATION Type only title to right of box: Abstract No. FORM B (For review) CHECK ONE (#21, pg 2): ☐ Poster Session Oral Session Preferred Preferred ■ Poster Session Oral Only Only ■ No Preference The author's wishes will be followed if possible. I am submitting this abstract after 1/5/96 as "late-breaking research" (#34, pg 2). Abstract Category Number:_ (Categories listed on pg 4)

The American Diabetes Association's blinded review process:

All abstracts submitted to the American Diabetes Association are peer-reviewed through a "blinded" review process. Reviewers are provided copies of the abstract form on this page (Abstract Form B). Please be certain that Abstract Form B does not include the author(s)' names or location(s). Be sure to indicate your presentation preference and the abstract category number on Abstract Form B as you have done on Abstract Form A. Abstract forms which do not comply with these guidelines or instructions on pages 1 and 2 will not be submitted for review. See Abstract Form B sample format below.

ONLY TYPE ABSTRACT TITLE AND ABSTRACT WITHIN BOX; DO NOT TYPE AUTHOR(S)' NAMES OR LOCATION

Type only title to right of box:	Insulin-Mediated Mitogenic Signal Transduction Requires IRS-1.
Abstract data	

DUALITY OF INTEREST STATEMENT

All participants at professional education events sponsored by the American Diabetes Association should present an objective and scientifically valid view on the subject they are addressing. It is essential that all speakers adhere to this objective in order to protect their reputation and integrity as well as that of the programs of the American Diabetes Association.

On occasion, however, a situation may exist in which an individual presenting the results of scientific research has a relevant duality of interest. Generally, a relevant duality of interest exists when an individual has material interests which could influence him/her or could be perceived as influencing him/her to act contrary to the interests of scientific research and for their own personal benefit or that of a family member, or a business associate. Usually a relevant duality of interest would be financial, such as when an individual has an employment relationship, stock ownership interest, consultative or advisory arrangement, or is the recipient of monies through a grant or stipend.

Situations involving a relevant duality of interest are not inherently wrong or bad, but the prospective audience must be made aware that an affiliation/financial interest exists in order to be able to evaluate fully the information presented. Accordingly, all abstract authors must complete and return the statement below. An author may decline to complete this form, and, in that event, cannot have his/her name on the abstract.

DUALITY OF INTEREST DISCLOSURE FORM

All authors listed on abstracts submitted for the 56th Annual Meeting and Scientific Sessions must sign this form, and a completed form must be included with <u>every</u> abstract submitted.

I have read the American Diabetes Association's *Duality of Interest Statement*, and I am indicating below that I have or have not had in the previous 12 months a relevant duality of interest with a company whose products or services are <u>directly</u> related to the subject matter of my presentation. A relevant duality of interest includes employment, ownership of stock, membership on a standing committee or on the board of directors, receiving honoraria or consulting fees, or receiving financial support or grants for research. Company is defined as a for-profit concern engaged in the development, manufacture, or sale of pharmaceutical or biomedical device(s)/supplies.

Abstra	act Title:			
Autho	ors' Printed Names and Signatures:			Indicate type of duality using numeral
1.	Printed Name	Signature	NO YES	
2.	Finited Name	Signature	NO YES	
3.	Printed Name	Signature	NO	
	Printed Name	Signature		
4	Printed Name	Signature	NO YES	
5.			NO YES	
	Printed Name	Signature		

(If additional space is needed for authors' signatures, please photocopy this form and include with abstract submission.)

*By answering yes, ADA will disclose the existence of the relevant duality of interest. ADA will make the disclosure by placing a numeral by the author(s)' name(s) in the program indicating the type of duality that exists (1 = employment; 2 = membership on board of directors; 3 = stock/shareholder; 4 = honoraria or consulting fees; 5 = grant/research support; 6 = other duality). The numeral will refer to the following statement in the program book:

"This presenter (denoted by a numeral next to his/her name in the program) has indicated that he/she has a relationship which, in the context of the subject of his/her presentation, could be perceived to represent a relevant duality of interest. The relationship is between the author and a pharmaceutical company, biomedical device manufacturer, or other corporation whose products or services are directly related to the subject matter of the author's presentation. Relevant dualities include: employment by an industrial concern (1); ownership of stock (2); membership on a committee or on the board of directors (3); receiving honoraria or consulting fees (4); receiving grants or funds from such corporations (5); or, other types of dualities not listed (6)."

Submission of this form does not: 1) guarantee acceptance of the abstract for presentation (All abstracts are peer-reviewed and not all abstracts are accepted for presentation.); and 2) influence the review of the abstracts (Reviewers are not provided copies of the signed *Duality of Interest Disclosure Forms*.)

ABSTRACT PREPARATION CHECKLIST

Two <u>original</u> abstract forms must be submitted as indicated in the Instructions for Preparation of Abstracts (see pg 1, #3).	☐ Has the form been sig Section of the Associat	ned by an <u>active</u> member of the Professional ion? (#23)		
Before mailing, please check your abstract submission for the following:	☐ Have two key words be	een provided for indexing? (#22, Form A)		
For both Abstract Form A and Abstract Form B: ☐ Is the submission on original abstract forms? (#3)	tials, institution, and m	ng author information been provided, i.e., creden I mailing address, as well as an E-mail address (i number? (#25, #29, Form A)		
☐ Does the heading of the abstract begin to the right of the box located in the left corner of the abstract border, and is the text of the abstract within the border? (#14a, #13)		ling the funding of the abstract's research been		
☐ Are the first letters of major words in the title capitalized? (#14b)	For Abstract Form B:	() : ()) 1 ()		
☐ Have the instructions for the body of the abstract been followed, including indentation, abbreviation, nonproprietary names, tables, and	 ☐ Have author(s)' name(s), city(ies) and state(s) been removed from the heading to "blind" the abstract? (#31, Form B) For each abstract submission, have the following items been complete 			
references? (#15, #16, #17, #18, #19)	and included:			
☐ Has the type of presentation preference been indicated? (forms)	☐ Has each author read and signed the <i>Duality of Interest</i> form (back original Abstract Form B)? (#24, page 6)			
☐ Has the appropriate abstract category number been filled in? (forms)	☐ Has a self-addressed, stamped postal card been provided if acknow-			
For Abstract Form A: \[\subseteq \text{ Are author(s)' and co-author(s)' names capitalized, and do author(s)'} \]	ledgement is desired? (#28)			
complete first name(s) precede last name(s), in the heading? (#14c)	☐ Has a processing fee of US\$35.00, payable by check to the American Diabetes Association, been enclosed with a payment form, or, has the appropriate credit card information on the payment form been completed and signed by the credit card holder? (#30)			
☐ Have asterisk(s) been used to designate active member(s) of the Professional Section of the Association in the heading? (#14d)				
☐ Have appropriate numerals to indicate the existence of an author(s)' duality been included in the heading? (#14e, pg 6)	☐ Have five copies of the front of each form been made and included in the submission packet? (#33)			
☐ Have degrees, academic titles, institutional affiliations, street address, and zip code <u>not been</u> listed in the heading? (#14f, 14g)	"Late-breaking research" abstracts: Have the specific instructions for submission of "late-breaking research abstracts been followed completely? (#34)			
CUI ALONG I	DOTTED LINE	FOR OFFICE USE ONLY		
American PAYM	IENT FORM	Date Rec'd:		
. Association.		Processed By:		
Include this form with your abstract submissi	ion.	No.Submitted:		
Title of Abstract:				
The of Abstract.				
Name of Corresponding Author:				
Method of Payment				
I have enclosed a check in the amount of \$ abstract attach check to this form)	(US\$35 re	egular or US\$50 "late-breaking" for each		
I authorize the American Diabetes Association to breaking" for each abstract) to my credit card fo				
American Express VISA		Mastercard		
Card issued in name of (please print):				
Card Number:				
Card Number.		Exp. Date:		



FUTURE MEETINGS

43rd Annual Advanced Postgraduate Course January 19 - 21, 1996 New York, New York

2nd Annual International Conference and Postgraduate Course February 22 - 25, 1996 Ocho Rios, Jamaica

Co-sponsored by The University of the West Indies Diabetes Outreach Project and the American Diabetes Association

Genetics of Diabetes Research Conference March 21 - 24, 1996 Denver, Colorado

56th Annual Meeting and Scientific Sessions June 8 - 11, 1996 San Francisco, California

44th Annual Advanced Postgraduate Course January 17 - 19, 1997 New Orleans, Louisiana

57th Annual Meeting and Scientific Sessions June 21 - 24, 1997 Boston, Massachusetts

For more information and registration forms, contact the American Diabetes Association, Meeting Services Department, 1660 Duke Street, Alexandria, VA 22314-3447 USA; phone: (703) 549-1500, ext. 2330; fax: (703) 683-1351; E-mail: meetings@diabetes.org