# Walgreens Now Offering Diabetes Education

BY ALICIA AULT

algreens, the nation's largest drugstore chain, is dipping a toe into diabetes care by offering education and counseling in four metropolitan areas.

The company's Optimal Wellness program is based on the North Carolina Center for Pharmaceutical Care's diabetes project and also draws on a Walgreens pilot that was developed by the drugstore chain and Harvard's Joslin Diabetes Center, Boston.

The program initially will be offered in Indianapolis, Phoenix, Albuquerque, and Oklahoma City. These areas were chosen partly because of the large number of diabetic residents, said Dr. Jay Rosan, senior vice president of health innovation at Take Care Health Systems, a Walgreens company.

Dr. Mack Harrell, chair of the socioeconomics and member advocacy committee for the American Association of Clinical Endocrinologists, said the Walgreens program could be helpful but that the AACE believes that any assistance, education, or counseling should be supervised by physicians.

"I'm in favor of people getting all the education they need," Dr. Harrell said in an interview. But, he added, "what we've learned from a number of recent studies is that the degree of glycemic control has to be individualized. You have to know the patient, know whether they have comorbidities that put them at higher risk, and decide what degree of control is acceptable." These nuances are beyond the capacity of a nurse practitioner and reinforce the need for a supervisory physician, he said.

Dr. Rosan emphasized that the nurse practitioners in the Optimal Wellness program will not offer treatments, and that physicians will be relied on as primary care coordinators and supervisors.

The program is being rolled out in concert with major insurers. The insurers, who pay a fee to Walgreens, will identify diabetic patients for the chain. When patients go to Walgreens for supplies or a prescription, pharmacists will tell them about the program's availability and ask if they want to enroll.

If the store has a retail clinic, a nurse practitioner will offer counseling; otherwise, the pharmacist will conduct the sessions, Dr. Rosan explained. The pharmacists and nurses receive training through a Joslin program certified by the Accreditation Council for Pharmacy Education.

The aim is to give patients four 30- to 60-minute sessions over a year-long period, with the potential of up to 12 interventions. Patients will pay nothing or a small copay, Dr. Rosan said.

After each session, the counselor will contact the patient's primary care physician with information. "Our intent here is to make certain that this is not a fragmentation of the care," Dr. Rosan said. If the primary caretaker is an endocrinologist, the counselor will reach out to that physician. For those who do not yet have a designated primary care physician, the pharmacies will make referrals.

Dr. Harrell also expressed reservations about Walgreens' potential conflict of interest. "The pharmacy has a certain secondary gain from having the patient in there," he noted. For instance, the pharmacy could promote supplies or treatments that favor the pharmacy's bottom line but aren't necessarily the best fit for the patient.

Dr. Rosan acknowledges that there's an opportunity, at a minimum, to fill more prescriptions. It also expands Walgreens' growing role as a multiservice provider and gives it a chance to burnish its brand. "If we can help people get better outcomes, we think they'll have a tendency to use Walgreens more than other stores," he said.

But the program may also help improve the nation's health if more diabetics take responsibility for managing their own care, he added.

Optimal Wellness won't be available to the uninsured, at least not initially. Walgreens is courting pharmaceutical companies to subsidize that effort, he said.

Walgreens' diabetes education effort is likely to expand nationally sooner rather than later, Dr. Rosan said. Many insurers are interested in the Optimal Wellness program, he said.

# TOVIAZ® (fesoterodine fumarate) extended release tablets

**BRIFF SUMMARY OF PRESCRIBING INFORMATION** 

nary only; see full Prescribing Information for complete product information INDICATIONS AND USAGE

Toviaz is indicated for the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and frequency.

### CONTRAINDICATIONS

Toviaz is contraindicated in patients with urinary retention, gastric retention, or uncontrolled narrow-angle glaucoma. Toviaz is also contraindicated in patients with known hypersensitivity to the drug or its ingredients.

### PRECAUTIONS

Bladder Outlet Obstruction: Toyiaz should be administered with caution to patients with clinically significant bladder outlet obstruction because of the risk of urinary retention (see CONTRAINDICATIONS)

Decreased Gastrointestinal Motility: Toviaz, like other antimuscarinic drugs, should be used with caution in patients with decreased gastrointestinal motility, such as those with severe constipation

Controlled Narrow-Angle Glaucoma: Toviaz should be used with caution in patients being treated for nat angle glaucoma, and only where the potential benefits outweigh the risks (see CONTRAINDICATIONS).

Reduced Hepatic Function: There are no dosing adjustments for patients with mild or moderate hepatic impairment. Toviaz has not been studied in patients with severe hepatic impairment and therefore is not recommended for use in this patient population (see CLINICAL PHARMACOLOGY, Pharmacokinetics in Special Populations in full prescribing information and DOSAGE AND ADMINISTRATION).

Myasthenia Gravis: Toviaz should be used with caution in patients with myasthenia gravis, a disease characterized by decreased cholinergic activity at the neuromuscular junction.

Reduced Renal Function: There are no dosing adjustments for patients with mild or moderate renal insufficiency. Doses of Toviaz greater than 4 mg are not recommended in patients with severe renal insufficiency (see CLINICAL PHARMACOLOGY, Pharmacokinetics in Special Populations in full prescribing information and DOSAGE AND

Concomitant Administration with CYP3A4 Inhibitors: Doses of Toviaz greater than 4 mg are not recommended in patients taking a potent CYP3A4 inhibitor (e.g. ketoconazole, itraconazole, clarithromycin).

In patients taking weak or moderate CYP3A4 inhibitors (e.g. erythromycin), careful assessment of tolerability at the 4 mg daily dose is advised prior to increasing the daily dose to 8 mg. While this specific interaction potential was not examined by clinical study, some pharmacokinetic interaction is expected, albeit less than that observed with potent CYP3A4 inhibitors (see CLINICAL PHARMACOLOGY, Drug-Drug Interactions in full prescribing information and DOSAGE AND ADMINISTRATION).

### Information for Patients

Information for Patients

Patients should be informed that Toviaz, like other antimuscarinic agents, may produce clinically significant adverse effects related to antimuscarinic pharmacological activity including constipation and urinary retention.

Toviaz, like other antimuscarinics, may be associated with blurred vision, therefore, patients should be advised to exercise caution until the drug's effects on the patient have been determined. Heat prostration (due to decreased sweating) can occur when Toviaz, like other antimuscarinic drugs, is used in a hot environment. Patients should also be informed that alcohol may enhance the drowsiness caused by Toviaz, like other anticholinergic agents. Patients should read the patient leaflet entitled "Patient Information TOVIAZ" before starting therapy with Toviaz.

# **Drug Interactions**

Drug interactions

Coadministration of Toviaz with other antimuscarinic agents that produce dry mouth, constipation, urinary retention, and other anticholinergic pharmacological effects may increase the frequency and/or severity of such effects. Anticholinergic agents may potentially after the absorption of some concomitantly administered drugs due to anticholinergic effects on gastrointestinal motility. Also see PRECAUTIONS, Concomitant Administration with CYP3A4 Inhibitors.

## **Drug-Laboratory Test Interactions**

en Toviaz and laboratory tests have not been studied

### Carcinogenesis, Mutagenesis, Impairment of Fertility

arcinogenesis, Mutagenesis, Impairment of Fertility or ovidence of drug-related carcinogenicity was found in 24-month studies with oral administration to mice drats. The highest tolerated doses in mice (females 45 to 60 mg/kg/day, males 30 to 45 mg/kg/day) prrespond to 11- to 19-fold (females) and 4- to 9-fold (males) the estimated human AUC values reached this fesoterodine 8 mg, which is the Maximum Recommended Human Dose (MRHD). In rats, the highest lerated dose (45 to 60 mg/kg/day) corresponds to 3- to 8-fold (females) and 3- to 14-fold (males), the timated human AUC at the MRHD.

Fesoterodine was not mutagenic or genotoxic in vitro (Ames tests, chromosome aberration tests) or in vivo

Fesoterodine had no effect on reproductive function, fertility, or early embryonic development of the fetus at non-maternally toxic doses in mice. The maternal No-Observed-Effect Level (NOEL) and the NOEL for effects on reproduction and early embryonic development were both 15 mg/kg/day. Based on AUC, the systemic exposure was 0.6- to 1.5-fold higher in mice than in humans at the MRHD, whereas based on peak ma concentrations, the exposure in mice was 5- to 9-fold higher. The Lowest-Observed-Effect Level (LOEL) for maternal toxicity was 45 mg/kg/day.

Pregnancy Category C

Reproduction studies have been performed in mice and rabbits. No dose-related teratogenicity was observed at oral doses up to 75 mg/kg/day in mice (6 to 27 times the expected exposure at the MRHD based on AUC and greater than 77 times the expected C<sub>max</sub>) and up to 27 mg/kg/day in rabbits (3- to 11-fold by AUC and 19- to 62-fold by C<sub>max</sub>). In mice treated orally with 75 mg/kg/day in rabbits (9- to 11-fold by AUC and 43- to 56-fold by C<sub>max</sub>). In mice treated orally with 75 mg/kg/day (6- to 27-times the expected exposure at the MRHD based on AUC and greater than 77-times the expected C<sub>max</sub>), increased resorptions and decreased live fetuses were observed. One fetus with cleft palate was observed at each dose (15, 45 and 75 mg/kg/day), at an incidence within the background historical range. In rabbits treated orally with 27 mg/kg/day (3- to 11-fold by AUC and 19- to 62-fold by C<sub>max</sub>), incompletely ossified sternebrae (retardation of bone development) were observed in fetuses. In rabbits treated by subcutaneous (sc) administration with 4.5 mg/kg/day (9- to 11-fold by AUC and 43- to 53-fold by C<sub>max</sub>), maternal toxicity and incompletely ossified sternebrae were observed in fetuses (at an incidence within the background historical range). At 1.5 mg/kg/day s.c., (3-fold by AUC and 11- to 13-fold by C<sub>max</sub>), decreased maternal food consumption in the absence of any fetal effects was observed. Oral administration of 30 mg/kg/day fesoterodine to mice in a pre- and post-natal development study resulted in decreased body weight of the dams and delayed ear opening of the pups. No effects were noted on mating and reproduction of the F<sub>1</sub> dams or on the F<sub>2</sub> offspring.

There are no adequate and well-controlled studies using Toviaz in pregnant women. Therefore, Toviaz should

There are no adequate and well-controlled studies using Toviaz in pregnant women. Therefore, Toviaz should be used during pregnancy only if the potential benefit outweighs the potential risk to the fetus.

It is not known whether fesoterodine is excreted in human milk. Toviaz should not be administered during nursing unless the potential benefit outweighs the potential risk to the neonate.

The safety and effectiveness of Toviaz in pediatric patients have not been established.

### Geriatric Use

Genaric Use

of 1567 patients who received Toviaz 4 mg/day or 8 mg/day in the Phase 2 and 3, placebo-controlled, efficacy
and safety studies, 515 (33%) were 65 years of age or older, and 140 (9%) were 75 years of age or older.

No overall differences in safety or effectiveness were observed between patients younger than 65 years of
age and those 65 years of age or older in these studies; however, the incidence of antimuscarinic adverse
events, including dry mouth, constipation, dyspepsia, increase in residual urine, dizziness (at 8 mg only)
and urinary tract infection, was higher in patients 75 years of age and older as compared to younger patients
(see CLINICAL PHARMACOLOGY, Pharmacokinetics in Special Populations and CLINICAL STUDIES in full
prescribing information and ADVERSE REACTIONS.) mation and ADVERSE REACTIONS).

### ADVERSE REACTIONS

The safety of Toylaz was evaluated in Phase 2 and 3 controlled trials in a total of 2859 natients with overactive The safety of Toviaz was evaluated in Phase 2 and 3 controlled trials in a total of 2859 patients with overactive bladder of which 2288 were treated with fesoterodine. Of this total, 782 received Toviaz 4 mg/day, and 785 received Toviaz 8 mg/day in Phase 2 or 3 studies with treatment periods of 8 or 12 weeks. Approximately 80% of these patients had >10 weeks exposure to Toviaz in these trials.

A total of 1964 patients participated in two 12-week, Phase 3 efficacy and safety studies and subsequent open-label extension studies. In these 2 studies combined, 554 patients received Toviaz 4 mg/day and 566 patients received Toviaz 8 mg/day.

In Phase 2 and 3 placebo-controlled trials combined, the incidences of serious adverse events in patients receiving placebo, Toviaz 4 mg, and Toviaz 8 mg were 1.9%, 3.5%, and 2.9%, respectively. All serious adverse events were judged to be not related or unlikely to be related to study medication by the investigator, except for four patients receiving Toviaz who reported one serious adverse event each: angina, chest pain, gastroenteritis, and QT prolongation on ECG.

The most commonly reported adverse event in patients treated with Toviaz was dry mouth. The incidence of dry mouth was higher in those taking 8 mg/day (35%) and in those taking 4 mg/day (19%), as compared to placebo (7%). Dry mouth led to discontinuation in 0.4%, 0.4%, and 0.8% of patients receiving placebo, Toviaz 4 mg, and Toviaz 8 mg, respectively. For those patients who reported dry mouth, most had their first occurrence of the event within the first month of treatment.

The second most commonly reported adverse event was constipation. The incidence of constipation was 2% in those taking placebo, 4% in those taking 4 mg/day, and 6% in those taking 8 mg.

Table 3 lists adverse events, regardless of causality, that were reported in the combined Phase 3, randomized placebo-controlled trials at an incidence greater than placebo and in 1% or more of patients treated with Toviaz 4 mg or 8 mg once daily for up to 12 weeks.

Table 3. Adverse events with an incidence exceeding the placebo rate and reported by ≥1% of patients from double-blind, placebo-controlled Phase 3 trials of 12 weeks' treatment duration

System organ class	Preferred term	Placebo N=554 %	Toviaz 4 mg/ day N=554 %	Toviaz 8 mg/ day N=566 %
Gastrointestinal disorders	Dry mouth	7.0	18.8	34.6
	Constipation	2.0	4.2	6.0
	Dyspepsia	0.5	1.6	2.3
	Nausea	1.3	0.7	1.9
	Abdominal pain upper	0.5	1.1	0.5
Infections	Urinary tract infection	3.1	3.2	4.2
	Upper respiratory tract infection	2.2	2.5	1.8
Eye disorders	Dry eyes	0	1.4	3.7
Renal and urinary disorders	Dysuria	0.7	1.3	1.6
	Urinary retention	0.2	1.1	1.4
Respiratory disorders	Cough	0.5	1.6	0.9
	Dry throat	0.4	0.9	2.3
General disorders	Edema peripheral	0.7	0.7	1.2
Musculoskeletal disorders	Back pain	0.4	2.0	0.9
Psychiatric disorders	Insomnia	0.5	1.3	0.4
Investigations	ALT increased	0.9	0.5	1.2
	GGT increased	0.4	0.4	1.2
Skin disorders	Rash	0.5	0.7	1.1

ALT=alanine aminotransferase, GGT=gamma glutamyltransferase

Patients also received Toviaz for up to three years in open-label extension phases of one Phase 2 and two Phase 3 controlled trials. In all open-label trials combined, 857, 701, 529, and 105 patients received Toviaz for at least 6 months, 1 year, 2 years, and 3 years respectively. The adverse events observed during long-term, open-label studies were similar to those observed in the 12-week, placebo-controlled studies, and included dry mouth, constipation, dry eyes, dyspepsia and abdominal pain. Similar to the controlled studies, most adverse events of dry mouth and constipation were mild to moderate in intensity. Serious adverse events, judged to be at least possibly related to study medication by the investigator, and reported more than one of the control to control to the c once during the open-label treatment period of up to 3 years included urinary retention (3 cases), diverticulitis (3 cases), constipation (2 cases), irritable bowel syndrome (2 cases), and electrocardiogram QT cor-

Overdosage with Toviaz can result in severe anticholinergic effects. Treatment should be symptomatic and supportive. In the event of overdosage, ECG monitoring is recommended.

### DOSAGE AND ADMINISTRATION

The recommended starting dose of Toviaz is 4 mg once daily. Based upon individual response and tolerability, the dose may be increased to 8 mg once daily.

The daily dose of Toviaz should not exceed 4 mg in the following populations

Patients with severe renal insufficiency (CL<sub>CR</sub><30 mL/min).
 Patients taking potent CYP3A4 inhibitors, such as ketoconazole, itraconazole, and clarithromycin

Toviaz is not recommended for use in patients with severe hepatic impairment (see CLINICAL PHARMACOL-OGY, Pharmacokinetics in Special Populations in full prescribing information and PRECAUTIONS).

Toviaz should be taken with liquid and swallowed whole. Toviaz can be administered with or without food, and should not be chewed, divided, or crushed.

SCHWARZ PHARMA PRODUKTIONS-GmbH, 08056 Zwickau, Germany

Distributed by: Pfizer Labs, Division of Pfizer Inc, NY, NY 10017



Revised November 2008

FSD00308B © 2009 Pfizer Inc. All rights reserved. August 2009