

NDC 0093-7643-56
once daily
**Rosiglitazone Maleate
and Glimepiride
Tablets**

4 mg*/1 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only

30 TABLETS

TEVA

* Each film-coated tablet contains rosiglitazone maleate equivalent to 4 mg rosiglitazone and contains 1 mg glimepiride, USP.

Usual Dosage: See package insert for full prescribing information.
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Dispense in a tight, light-resistant container as defined in the USP, with a child-resistant closure (as required).

**KEEP THIS AND ALL
MEDICATIONS OUT OF THE
REACH OF CHILDREN.**

Manufactured in Israel by:
TEVA PHARMACEUTICAL IND. LTD.
Jerusalem, 9777402, Israel

Manufactured For:
TEVA PHARMACEUTICALS USA, INC.
North Wales, PA 19454

N 3 0093-7643-56 2



NDC 0093-7643-05

once daily

Rosiglitazone Maleate and Glimepiride Tablets

4 mg*/1 mg

PHARMACIST: Dispense the accompanying
Medication Guide to each patient.

Rx only

500 TABLETS

TEVA

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rosiglitazone maleate equivalent to
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1 mg glimepiride, USP.

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Store at 20° to 25°C (68° to 77°F)

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and Glimepiride
Tablets**
4 mg*/4 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

R_x only

30 TABLETS

TEVA

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Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

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N 0093-7642-56 5



NDC 0093-7642-05

once daily

Rosiglitazone Maleate and Glimepiride Tablets

4 mg*/4 mg

PHARMACIST: Dispense the accompanying
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Rx only

500 TABLETS

TEVA

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4 mg glimepiride, USP.

Usual Dosage: See package insert
for full prescribing information.

Store at 20° to 25°C (68° to 77°F)

[See USP Controlled Room
Temperature].

Dispense in a tight, light-resistant
container as defined in the USP, with
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North Wales, PA 19454

Iss. 9/2015

N
3 0093-7642-05 3



NDC 0093-7700-56
once daily
**Rosiglitazone Maleate
and Glimpiride
Tablets**
8 mg*/2 mg

PHARMACIST: Dispense the
accompanying Medication Guide to
each patient.

Rx only

30 TABLETS

TEVA

* Each film-coated tablet contains
rosiglitazone maleate equivalent to
8 mg rosiglitazone and contains
2 mg glimepiride, USP.

Usual Dosage: See package insert
for full prescribing information.
Store at 20° to 25°C (68° to 77°F)
[See USP Controlled Room
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Dispense in a tight, light-resistant
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North Wales, PA 19454

N 0093-7700-56 2



NDC 0093-7700-05

once daily

Rosiglitazone Maleate and Glimepiride Tablets

8 mg*/2 mg

PHARMACIST: Dispense the accompanying
Medication Guide to each patient.

Rx only

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Iss. 9/2015

N 0093-7700-05



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NDC 0093-7702-56
once daily
**Rosiglitazone Maleate
and Glimepiride
Tablets**
8 mg*/4 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

R_x only

30 TABLETS

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NDC 0093-7702-05

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8 mg*/4 mg

PHARMACIST: Dispense the accompanying
Medication Guide to each patient.

Rx only

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Metabolism and Excretion. Rosiglitazone. Rosiglitazone is extensively metabolized with no unchanged drug excreted in the urine. The major routes of metabolism were N-demethylation and hydroxylation, followed by conjugation with sulfate and glucuronic acid. Of the circulating metabolites are considerably less potent than parent drug and, therefore, are not expected to contribute to the insulin-sensitizing activity of rosiglitazone. *In vitro* data demonstrate that rosiglitazone is predominantly metabolized by cytochrome P450 (CYP) isoenzyme 2C8, with CYP2C9 contributing as a minor pathway. Following oral or IV administration of [¹⁴C]rosiglitazone maleate, about 84% of the dose was eliminated in the urine and 16% in the feces, respectively. The plasma half-life of [¹⁴C] related material ranged from 103 to 158 hours. The elimination half-life is 3 to 4 hours and is independent of dose.

Glimepiride. Glimepiride is completely metabolized by oxidative biotransformation after either an IV or oral dose. The major metabolites are the cytochrome hydroxy methyl derivative (M1) and the carboxyl derivative (M2). Cytochrome P450 2C8 is involved in the biotransformation of glimepiride to M1. M1 is further metabolized to M2 by one or several cytoxic enzymes. M2 is inactive. In animals, M1 possesses about 1/3 of the pharmacological activity of glimepiride, but it is unclear whether M1 results in clinically meaningful effects on blood glucose in humans.

When [¹⁴C]glimepiride was given orally to 3 healthy male subjects, approximately 60% of the total radioactivity was recovered in the urine in 7 days. M1 and M2 accounted for 80% to 90% of the radioactivity recovered in the urine. The ratio of M1 to M2 in the urine was approximately 3.2 in all subjects. About 40% of the total radioactivity was recovered in the feces, respectively, in feces and M1 and M2 (predominant) accounted for about 70% of that recovered in feces. No parent drug was recovered from urine or feces. After IV dosing in patients, no significant biliary excretion of glimepiride or its M1 metabolite was observed.

Special Populations. No pharmacokinetic data are available for rosiglitazone maleate and glimepiride tablets in the following special populations. Information is available for rosiglitazone maleate and glimepiride tablets.

Gender. Rosiglitazone. Results of the population pharmacokinetics analysis showed that the mean oral clearance of rosiglitazone in female patients (N = 405) was approximately 6% lower compared with male patients of the same body weight (N = 642). Rosiglitazone therapy with rosiglitazone maleate improved glycemic control in both males and females with a greater therapeutic response observed in females. For a given body mass index (BMI), females tend to have a greater fat mass than males. Since the molecular target of rosiglitazone, PPARγ, is expressed in adipose tissues, this differentiating characteristic may account, at least in part, for the greater response to rosiglitazone combination with sulfonylureas in females. Since rosiglitazone should be individualized, no dose adjustments are necessary based on gender alone.

Glimepiride. There were no differences between males and females in the pharmacokinetics of glimepiride when adjustment was made for differences in body weight.

Geriatric. Rosiglitazone. Results of the population pharmacokinetics analysis (N = 716 < 65 years; N = 331 ≥ 65 years) showed that age does not significantly affect the pharmacokinetics of rosiglitazone.

Glimepiride. A comparison of glimepiride pharmacokinetics in patients with type 2 diabetes < 65 years and those > 65 years was evaluated in a multiple-dose study using glimepiride 6 mg daily. There were no significant differences in glimepiride pharmacokinetics between the 2 age groups. The mean AUC at steady state for the older patients was approximately 13% lower than that for the younger patients; the mean weight-adjusted clearance for the older patients was approximately 11% higher than that for the younger patients *[see Use in Specific Populations (8.5)]*.

Hepatic Impairment. Therapy with rosiglitazone maleate and glimepiride tablets should not be initiated if the patient exhibits clinical evidence of active liver disease or increased serum transaminase levels (ALT ≥ 2.5X upper limit of normal) at baseline *[see Warnings and Precautions (5.6)]*.

Rosiglitazone. Unbound oral clearance of rosiglitazone was significantly lower in patients with moderate to severe liver disease (Child-Pugh Class B/C) compared with healthy subjects. As a result, unbound C_{max} and AUC_{0-∞} were increased 2- and 3-fold, respectively. Elimination half-life of rosiglitazone was about 2 hours longer in patients with liver disease, compared with healthy subjects.

Glimepiride. It is unknown whether there is an effect of hepatic impairment on glimepiride pharmacokinetics because the pharmacokinetics of glimepiride has not been adequately evaluated in patients with hepatic impairment.

Invasive Patients. **Glimepiride.** The pharmacokinetics of glimepiride and its metabolites were measured in a single-dose study involving 28 patients with type 2 diabetes who either had normal body weight or were morbidly obese. While the T_{max}, C_l and V_d of glimepiride in the morbidly obese patients were similar to those in the normal weight group, the morbidly obese patients had lower C_{max} and AUC than those of normal body weight. The mean C_{max}, AUC₀₋₂₄, AUC_{0-∞} values of glimepiride in normal versus morbidly obese patients were 547 ± 218 ng/mL versus 410 ± 124 ng/mL, 3,210 ± 1,030 hours·ng/mL versus 2,820 ± 1,110 hours·ng/mL, and 4,000 ± 1,320 hours·ng/mL versus 3,360 hours·ng/mL, respectively.

Race. Rosiglitazone. Results of a population pharmacokinetic analysis including subjects of white, black, and other ethnic origins indicated that race has no influence on the pharmacokinetics of rosiglitazone.

Glimepiride. No studies have been conducted to assess the effects of race on glimepiride pharmacokinetics, but in placebo-controlled trials of glimepiride in patients with type 2 diabetes, the reduction in HbA1c was comparable in whites (N = 536), blacks (N = 63), and Hispanics (N = 63).

Renal Impairment. Rosiglitazone. There are no clinically relevant differences in the pharmacokinetics of rosiglitazone in patients with mild to severe renal impairment or in hemodialysis-dependent patients compared with subjects with normal renal function.

Glimepiride. In a single-dose, open-label study, glimepiride 3 mg was administered to patients with mild, moderate, and severe renal impairment as well as to age-matched healthy controls. The mean AUC_{0-∞} in patients with mild renal impairment (CL_{cr} > 50 mL/min), Group I consisted of 3 patients with moderate renal impairment (CL_{cr} = 20 to 50 mL/min), and Group II consisted of 7 patients with severe renal impairment (CL_{cr} < 20 mL/min). Although glimepiride serum concentrations decreased with decreasing renal function, Group II had a 2.3-fold higher mean AUC for M1 and an 8.6-fold higher mean AUC for M2 compared to corresponding mean AUCs in Group I. The apparent terminal half-life (T_{1/2}) for glimepiride did not change, while the half-lives for M1 and M2 increased as renal function decreased. Mean urinary excretion of M1 plus M2 as a percentage of dose decreased from 44.4% for Group I, to 30.9% for Group II, and 3.9% for Group III.

Pediatric. No pharmacokinetic data from trials in pediatric subjects are available for rosiglitazone maleate and glimepiride tablets.

Rosiglitazone. Pharmacokinetic parameters of rosiglitazone in pediatric patients were established using a population pharmacokinetic analysis with sparse data from 96 pediatric patients in a single pediatric clinical trial including 33 males and 63 females with ages ranging from 10 to 17 years (weights ranging from 25 kg to 60 kg). Population pharmacokinetic parameters were 3.15 L/h and 13.5 L, respectively. These estimates of CL/F and V/F were consistent with the typical parameter estimates from a prior adult population analysis.

Glimepiride. The pharmacokinetics of glimepiride (1 mg) were evaluated in a single-dose trial conducted in 30 type 2 diabetic patients (male = 7, female = 23) between ages 10 and 17 years. The mean (±SD) AUC_{0-∞} was 203 ± 203 ng·h/mL, C_{max} (102 ± 48 ng/mL), and t_{1/2} (3.1 ± 1.7 hours) were comparable to historical data from adults (AUC_{0-∞} 315 ± 96 ng·h/mL, C_{max} 103 ± 34 ng/mL, and t_{1/2} 3.3 ± 4.1 hours).

12.4 Drug-Drug Interactions

Single oral doses of glimepiride in 14 healthy adult subjects had no clinically significant effect on the steady-state pharmacokinetics of rosiglitazone. No clinically significant reductions in glimepiride AUC and C_{max} were observed after repeat doses of rosiglitazone (8 mg once daily) for 8 days in healthy adult subjects.

Rosiglitazone. *Drugs That Inhibit, Induce, or are Metabolized by Cytochrome P450.* *In vitro* drug metabolism studies suggest that rosiglitazone does not inhibit any of the major P450 enzymes at clinically relevant concentrations. *In vitro* data demonstrate that rosiglitazone is predominantly metabolized by CYP2C8, and to a lesser extent, 2C9 *[see Drug Interactions (7.1)]*.

Rosiglitazone (4 mg twice daily) was shown to have no clinically relevant effect on the pharmacokinetics of nifedipine and oral contraceptives (ethinyl estradiol and norethindrone), which are predominantly metabolized by CYP3A4.

Glimepiride. Concomitant administration of gemfibrozil (600 mg twice daily), an inhibitor of CYP2C8, and rosiglitazone (4 mg once daily) for 7 days increased rosiglitazone AUC by 127%, compared with the administration of rosiglitazone (4 mg once daily) alone. Given the potential for dose-related adverse events with rosiglitazone, a decrease in the dose of rosiglitazone may be needed when gemfibrozil is introduced *[see Drug Interactions (7.1)]*.

Rifampin. Rifampin administration (600 mg once a day), an inducer of CYP2C8, for 6 days is reported to decrease rosiglitazone AUC by 66%, compared with the administration of rosiglitazone (8 mg) alone *[see Drug Interactions (7.1)]*.

Glyburide. Rosiglitazone (2 mg twice daily) taken concomitantly with glyburide (3.75 to 10 mg/day) for 7 days did not alter the mean steady-state 24-hour plasma glyburide concentrations in diabetic patients stabilized on glyburide therapy. Repeat doses of rosiglitazone (8 mg once daily) for 8 days in healthy adult Caucasian subjects caused a decrease in glyburide AUC and C_{max} of approximately 30%. In Japanese subjects, glyburide AUC and C_{max} slightly increased following coadministration of rosiglitazone.

Digoxin. Repeat oral dosing once daily for rosiglitazone (8 mg once daily) for 14 days did not alter the steady-state pharmacokinetics of digoxin (0.375 mg once daily) in healthy volunteers.

Warfarin. Repeat dosing with rosiglitazone had no clinically relevant effect on the steady-state pharmacokinetics of warfarin enantiomers.

Additional pharmacokinetic trials demonstrated no clinically relevant effect of acarbose, ranitidine, or metformin on the pharmacokinetics of rosiglitazone.

Glimepiride:					
Aspirin: In a randomized, double-blind, two-period, crossover study, healthy subjects were given either placebo or aspirin 1 gram three times daily for a total treatment period of 5 days. On Day 4 of each study period, a single 1 mg dose of glimepiride was administered. The glimepiride doses were separated by a 14-day washout period. Coadministration of aspirin and glimepiride resulted in a 34% decrease in the mean glimepiride AUC and a 4% decrease in the mean glimepiride C _{max} .					
Colesevelam: Concomitant administration of colesvelam and glimepiride resulted in reductions in glimepiride AUC _{0-∞} and C _{max} of 18% and 8%, respectively. When glimepiride was administered 4 hours prior to colesvelam, there was no significant change in glimepiride AUC _{0-∞} or C _{max} (-5% and 3%, respectively) <i>[see Dosage and Administration (2.1) and Drug Interactions (7.4)]</i> .					
Cimetidine and Ranitidine: In a randomized, open-label, 3-way, crossover study, healthy subjects received either a single 4 mg dose of glimepiride alone, glimepiride with ranitidine (150 mg twice daily for 4 days; glimepiride was administered on Day 3), or glimepiride with cimetidine (800 mg daily for 4 days; glimepiride was administered on Day 3). Coadministration of cimetidine or ranitidine with a single 4-mg oral dose of glimepiride did not significantly alter the absorption and disposition of glimepiride.					
Propranolol: In a randomized, double-blind, two-period, crossover study, healthy subjects were given either placebo or propranolol 40 mg three times daily for a total treatment period of 5 days. On Day 4 of each study period, a single 2 mg dose of glimepiride was administered. The glimepiride doses were separated by a 14-day washout period. Concomitant administration of propranolol and glimepiride significantly increased glimepiride C _{max} , AUC, and t _{1/2} by 23%, 22%, and 15%, respectively, and decreased glimepiride CL/F by 18%. The recovery of M1 and M2 from urine was not changed.					
Warfarin: In an open-label, two-way, crossover study, healthy subjects received 4 mg of glimepiride daily for 10 days. Single 25 mg doses of warfarin were administered 6 days before starting glimepiride and on Day 4 of glimepiride administration. The concomitant administration of glimepiride did not alter the pharmacokinetics of R- and S-warfarin enantiomers. No changes were observed in warfarin plasma protein binding. Glimepiride resulted in a statistically significant decrease in the pharmacokinetic response to warfarin. The reductions in mean area under the prothrombin time (PT) curve and maximum PT values during glimepiride treatment were 3.3% and 9.9%, respectively, and are unlikely to be clinically relevant.					

13.1 NONCLINICAL TOXICOLOGY

13.1.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
No animal studies have been conducted with rosiglitazone maleate and glimepiride tablets. The following data are based on findings in studies performed with rosiglitazone or glimepiride alone.

Rosiglitazone. Carcinogenesis: 2-year carcinogenicity study was conducted in Charles River CD-1 mice at doses of 0.4, 1.5, and 6 mg/kg/day in the diet (highest dose equivalent to approximately 12 times human AUC at the maximum recommended human daily dose). Sprague-Dawley rats were dosed for 2 years by oral gavage at doses of 0.05 mg/kg/day, 0.3 mg/kg/day, and 2 mg/kg/day (highest dose equivalent to approximately 10 to 20 times human AUC at the maximum recommended human daily dose for male and female rats, respectively).

Rosiglitazone was not carcinogenic in the mouse. There was an increase in incidence of adipose hyperplasia in the mouse at doses > 1.5 mg/kg/day (approximately 2 times human AUC at the maximum recommended human daily dose). In rats, there was a significant increase in the incidence of benign adipose tissue tumors (lipomas) at doses ≥ 0.3 mg/kg/day (approximately 2 times human AUC at the maximum recommended human daily dose). These proliferative changes in both species are considered due to the persistent pharmacological overstimulation of adipose tissue.

Mutagenesis: Rosiglitazone was not mutagenic or clastogenic in the *in vitro* bacterial assays for gene mutation, the *in vitro* chromosome aberration test in human lymphocytes, the *in vivo* mouse micronucleus test, and the *in vivo* *in vitro* rat US assay. There was a small (about 2-fold) increase in mutation in the *in vitro* mouse lymphoma assay in the presence of metabolic activation.

Impairment of Fertility: Rosiglitazone had no effects on mating or fertility of male rats given up to 40 mg/kg/day (approximately 116 times human AUC at the maximum recommended human daily dose). Rosiglitazone altered estrous cyclicity (2 mg/kg/day) and reduced fertility (40 mg/kg/day) of female rats in association with lower plasma levels of progesterone and estradiol (approximately 20 and 200 ng/mL, respectively) compared with control animals. No such effects were observed at 2 mg/kg/day (approximately 3 times human AUC at the maximum recommended human daily dose). In juvenile rats, doses from 27 days of age through to sexual maturity (up to up to 40 mg/kg/day), there was no effect on male reproductive performance, or on estrous cyclicity, pregnancy performance or pregnancy outcome in females (approximately 6 times human AUC at the maximum recommended daily dose). In monkeys, rosiglitazone (0.6 and 4.8 mg/kg/day, approximately 3 and 15 times human AUC at the maximum recommended human daily dose, respectively) diminished the follicular phase rise in serum estradiol with consequential reduction in the luteal/ovulatory hormone surge, lower luteal phase progesterone levels, and amenorrhea. The mechanism for these effects appears to be direct inhibition of ovarian steroidogenesis.

Glimepiride. Carcinogenesis: Studies in rats at doses of up to 5,000 parts per million (ppm) in complete feed (approximately 340 times the maximum recommended human dose, based on surface area) for 30 months showed no evidence of carcinogenesis.

In mice, administration of glimepiride for 24 months resulted in an increase in benign pancreatic adenoma formation that was dose-related and was thought to be the result of chronic pancreatic stimulation. No adenoma formation in mice was observed at a dose of 320 ppm in complete feed, or 46 to 54 mg/kg body weight/day. This is about 35 times the maximum human recommended dose of 8 mg once daily based on surface area.

Mutagenesis: Glimepiride was non-mutagenic in a battery of *in vitro* and *in vivo* mutagenicity studies (Ames test, somatic cell chromosomal aberration, unscheduled DNA synthesis, and mouse micronucleus test).

Impairment of Fertility: There was no effect of glimepiride on male mouse fertility in animals exposed up to 2,500 mg/kg body weight (> 1,700 times the maximum recommended human dose based on surface area). Glimepiride had no effect on the fertility of male and female rats administered up to 4,000 mg/kg body weight (approximately 4,000 times the maximum recommended human dose based on surface area).

13.2 Animal Toxicology and/or Pharmacology

Rosiglitazone: Heart weights were increased in mice (3 mg/kg/day), rats (5 mg/kg/day), and dogs (2 mg/kg/day) with rosiglitazone treatments (approximately 5, 22, and 2 times human AUC at the maximum recommended human daily dose, respectively). Effects on heart weights were consistent with those seen in adults. Morphometric measurement indicated that there was hypertrophy in cardiac ventricular tissues, which may be due to increased heart work as a result of plasma volume expansion.

14 CLINICAL STUDIES

14.1 Patientadequately Controlled on Diet and Exercise

In a 28-week, randomized, double-blind, clinical trial, 901 patients with type 2 diabetes inadequately controlled on diet and exercise alone (baseline mean fasting plasma glucose [FPG] 211 mg/dL and baseline mean HbA1c 9.1%) were started on rosiglitazone maleate and glimepiride tablets at 4 mg/1 mg daily, or glimepiride 1 mg. Doses could be increased at 4-week intervals to reach a target mean daily glucose of ≤ 110 mg/dL. Patients who received rosiglitazone maleate and glimepiride tablets were randomized to 1 of 2 treatment schemes differing in the maximum total daily dose (4 mg/4 mg or 8 mg/4 mg). The maximum total daily dose was 8 mg/4 mg for rosiglitazone monotherapy. All treatment groups were monitored for safety and efficacy at once-daily regimen. Improvements in FPG and HbA1c were observed in patients treated with rosiglitazone maleate and glimepiride tablets compared with either rosiglitazone or glimepiride alone (see Table 8).

Table 8. Glycemic Parameters in a 28-Week Trial of Rosiglitazone Maleate and Glimepiride Tablets in Patients With Type 2 Diabetes Mellitus Inadequately Controlled on Diet and Exercise

Parameter	Glimepiride	Rosiglitazone	Rosiglitazone Maleate and Glimepiride Tablets	Rosiglitazone Maleate and Glimepiride Tablets
Mean Final Dose	3.5 mg	7.5 mg	4.0 mg/3.2 mg	6.8 mg/2.9 mg
N	221	227	221	214
FPG (mg/dL) (mean [SD])				
Baseline	211 (70)	212 (66)	207 (58)	214 (61)
Change from baseline	-42 (66)	-57 (58)	-70 (57)	-80 (57)
Treatment difference between				
- Rosiglitazone Maleate and Glimepiride Tablets and glimepiride	—	—	-30 [†]	-37 [†]
- Rosiglitazone Maleate and Glimepiride Tablets and rosiglitazone	—	—	-16 [†]	-23 [†]
% of patients with > 30 mg/dL decrease from baseline	56%	64%	77%	85%
HbA1c (%) (mean [SD])				
Baseline	9.0 (1.3)	9.1 (1.3)	9.0 (1.3)	9.2 (1.4)
Change from baseline	-1.7 (1.4)	-1.8 (1.5)	-2.4 (1.1)	-2.5 (1.4)
Treatment difference between				
- Rosiglitazone Maleate and Glimepiride Tablets and glimepiride	—	—	-0.6 [†]	-0.7 [†]
- Rosiglitazone Maleate and Glimepiride Tablets and rosiglitazone	—	—	-0.7 [†]	-0.8 [†]
% of patients with ≥ 0.7% decrease from baseline	82%	76%	93%	93%
% of patients at HbA1c Target < 7.0% [‡]	49%	46%	75%	72%

† Least squared means, P < 0.0001 compared with monotherapy.

‡ Response is related to baseline HbA1c.
Treatment with rosiglitazone maleate and glimepiride tablets resulted in statistically significant improvements in FPG and HbA1c compared with each of the monotherapies. However, when considering choice of therapy for drug-naïve patients, the risk-benefit of initiating monotherapy or dual therapy should be considered. In particular, the risk of hypoglycemia and weight gain with dual therapy should be taken into account *[see Warnings and Precautions (5.3, 5.5), Adverse Reactions (6.1)]*.

14.2 Patients Previously Treated With Sulfonylureas

The safety and efficacy of rosiglitazone adds to a sulfonylurea have been studied in clinical trials in patients with type 2 diabetes inadequately controlled on sulfonylureas alone. No clinical trials have been conducted with the fixed-dose combination of rosiglitazone maleate and glimepiride tablets in patients inadequately controlled on a sulfonylurea or who have initially responded to rosiglitazone alone and require additional glycemic control.

A total of 3,457 patients with type 2 diabetes participated in ten 24- to 26-week randomized, double-blind, placebo/active-controlled trials and one 2-year double-blind, active-controlled trial in elderly patients designed to assess the efficacy and safety of rosiglitazone in combination with two sulfonylureas. Rosiglitazone 2 mg, 4 mg, or 8 mg daily, was administered either once daily (3 trials) or in divided doses twice daily (7 trials), to patients inadequately controlled on a submaximal or maximal dose of sulfonylurea.

In these trials, the combination of rosiglitazone 4 mg or 8 mg daily (administered as single- or twice-daily divided doses) and a sulfonylurea significantly reduced FPG and HbA1c compared with placebo plus sulfonylurea or further up-titration of the sulfonylurea. **Table 9** shows pooled data for 8 trials in which rosiglitazone added to sulfonylurea was compared with placebo plus sulfonylurea.

Table 9. Glycemic Parameters in 24- to 26- Week Combination Trials of Rosiglitazone Plus Sulfonylureas

Twice-Daily Divided Dosing (5 Trials)	Sulfonylurea	Rosiglitazone 2 mg Twice Daily + Sulfonylurea	Sulfonylurea	Rosiglitazone 4 mg Once Daily + Sulfonylurea	Rosiglitazone 8 mg Once Daily + Sulfonylurea
FPG (mg/dL)	397	497	248	346	
Baseline (mean)	204	198	188	187	
Change from baseline (mean)	11	-29	8	-43	
Difference from sulfonylurea alone (adjusted mean)	—	-42 [†]	—	-53 [†]	
% of patients with > 30 mg/dL decrease from baseline	17%	49%	15%	61%	
HbA1c (%)					
Baseline (mean)	9.4	9.5	9.3	9.6	
Change from baseline (mean)	0.2	-1.0	0.0	-1.6	
Difference from sulfonylurea alone (adjusted mean)	—	-1.1 [†]	—	-1.4 [†]	
% of patients with ≥ 0.7% decrease from baseline	21%	60%	23%	75%	
Once-Daily Dosing (3 Trials)	Sulfonylurea	Rosiglitazone 4 mg Once Daily + Sulfonylurea	Sulfonylurea	Rosiglitazone 8 mg Once Daily + Sulfonylurea	
N	172	172	173	176	
FPG (mg/dL)					
Baseline (mean)	198	206	188	192	
Change from baseline (mean)	17	-25	17	-43	
Difference from sulfonylurea alone (adjusted mean)	—	-47 [†]	—	-66 [†]	
% of patients with > 30 mg/dL decrease from baseline	17%	48%	19%	55%	
HbA1c (%)					
Baseline (mean)	8.6	8.8	8.8	8.9	
Change from baseline (mean)	0.4	-0.5	0.1	-1.2	
Difference from sulfonylurea alone (adjusted mean)	—	-0.9 [†]	—	-1.4 [†]	
% of patients with ≥ 0.7% decrease from baseline	11%	36%	20%	68%	

† P < 0.0001 compared with sulfonylurea alone.

One of 24- to 26-week trials included patients who were inadequately controlled on maximal doses of glyburide and switched to 4 mg of rosiglitazone daily as monotherapy; in this group, loss of glycemic control was demonstrated, as evidenced by increases in FPG and HbA1c.

In a 2-year double-blind trial, elderly patients (aged 59 to 89 years) on half-maximal sulfonylurea (glipizide 10 mg twice daily) were randomized to the addition of rosiglitazone (N = 115, 4 mg once daily to 8 mg as needed) or to continued up-titration of glipizide (N = 110), to a maximum of 20 mg twice daily. Mean baseline FPG and HbA1c were 157 mg/dL and 7.72%, respectively. For the rosiglitazone plus glipizide arm and 159 mg/dL and 7.65%, respectively, for the glipizide up-titration arm. Loss of glycemic control (FPG > 180 mg/dL) occurred in a significantly lower proportion of patients (2% on rosiglitazone plus glipizide compared with patients in the glipizide up-titration arm (28.7%). About 78% of the patients on combination therapy completed the 2 years of therapy while only 51% completed on glipizide monotherapy. The effect of combination therapy on FPG and HbA1c was durable over the 2-year trial period, with patients achieving a mean of 152 mg/dL for FPG and a mean of 6.8% for HbA1c compared with no change on the glipizide arm.

15 REFERENCES

1. Park JI, Kim KA, Kang MH, et al. Effect of rifampin on the pharmacokinetics of rosiglitazone in healthy subjects. *Clin Pharmacol Ther* 2004;75:157-162.

16 HOW SUPPLIED/STORAGE AND HANDLING

Rosiglitazone maleate and glimepiride tablets are supplied as follows:

4 mg/1 mg strength: yellow, film-coated, standard convex tablet, debossed with "93" on one side of the tablet and with "7643" on the other side of the tablet in bottles of 30 (NDC 0093-7643-56) and 500 (NDC 0093-7643-05).

4 mg/2 mg strength: orange, film-coated, standard convex tablet, debossed with "93" on one side of the tablet and with "7644" on the other side of the tablet in bottles of 30 (NDC 0093-7644-56) and 500 (NDC 0093-7644-05).

4 mg/4 mg strength: pink, film-coated, standard convex tablet, debossed with "93" on one side of the tablet and with "7642" on the other side of the tablet in bottles of 30 (NDC 0093-7642-56) and 500 (NDC 0093-7642-05).

8 mg/2 mg strength: pink, film-coated, standard convex tablet, debossed with "93" on one side of the tablet and with "7700" on the other side of the tablet in bottles of 30 (NDC 0093-7700-56) and 500 (NDC 0093-7700-05).

8 mg/4 mg strength: red, film-coated, standard convex tablet, debossed with "93" on one side of the tablet and with "7702" on the other side of the tablet in bottles of 30 (NDC 0093-7702-56) and 500 (NDC 0093-7702-05).

Store at 20° to 25° (68° to 77°) *[see USP Controlled Room Temperature]*.

Dispense in a light-, light-resistant container as defined in the USP, with a child-resistant closure (as required).

21 PATIENT COUNSELING

