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NDC 0093-7322-06

**ROSIGLITAZONE
MALEATE
Tablets**

2 mg*

PHARMACIST: Dispense the accompanying
Medication Guide to each patient.

R_x only

60 TABLETS

TEVA

* Each film-coated tablet contains
rosiglitazone maleate equivalent to
2 mg rosiglitazone.

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.**

Iss. 12/2012

Manufactured In Israel By:

TEVA PHARMACEUTICAL IND. LTD.
Jerusalem, 91010, Israel

Manufactured For:

TEVA PHARMACEUTICALS USA
Sellersville, PA 18960



Reference ID: 3248447

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NDC 0093-7323-01

**ROSIGLITAZONE
MALEATE
Tablets**

4 mg*

PHARMACIST: Dispense the accompanying
Medication Guide to each patient.

Rx only

100 TABLETS

TEVA

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Usual Dosage: See package insert
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NDC 0093-7323-05

**ROSIGLITAZONE
MALEATE
Tablets
4 mg***

PHARMACIST: Dispense the accompanying
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R_x only

500 TABLETS

TEVA

* Each film-coated tablet
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equivalent to 4 mg rosiglitazone.

Usual Dosage: See package insert
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Store at 20° to 25°C (68° to 77°F)

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- Rosiglitazone maleate tablets may be prescribed alone or with other diabetes medicines. This will depend on how well your blood sugar is controlled.
- Take rosiglitazone maleate tablets with or without food.
- It can take 2 weeks for rosiglitazone maleate tablets to start lowering blood sugar. It may take 2 to 3 months to see the full effect on your blood sugar level.
- If you miss a dose of rosiglitazone maleate tablets, take it as soon as you remember, unless it is time to take your next dose. Take your next dose at the usual time. Do not take double doses to make up for a missed dose.
- If you take too many rosiglitazone maleate tablets, call your doctor or poison control center right away.
- Test your blood sugar regularly as your doctor tells you.
- Diet and exercise can help your body use its blood sugar better. It is important to stay on your recommended diet, lose extra weight, and get regular exercise while taking rosiglitazone maleate tablets.
- Your doctor should do blood tests to check your liver before you start rosiglitazone maleate tablets and during treatment as needed. Your doctor should also do regular blood sugar tests (for example, "A1C") to monitor your response to rosiglitazone maleate tablets.

What are possible side effects of rosiglitazone maleate tablets?
Rosiglitazone maleate tablets may cause serious side effects including:

- New or worse heart failure.** See “What is the most important information I should know about rosiglitazone maleate tablets?”.
- Heart attack.** See “What is the most important information I should know about rosiglitazone maleate tablets?”.
- Swelling (edema).** Rosiglitazone maleate tablets can cause swelling due to fluid retention. See “What is the most important information I should know about rosiglitazone maleate tablets?”.
- Weight gain.** Rosiglitazone maleate tablets can cause weight gain that may be due to fluid retention or extra body fat. Weight gain can be a serious problem for people with certain conditions including heart problems. See “What is the most important information I should know about rosiglitazone maleate tablets?”.

- Liver problems.** It is important for your liver to be working normally when you take rosiglitazone maleate tablets. Your doctor should do blood tests to check your liver before you start taking rosiglitazone maleate tablets and during treatment as needed. Call your doctor right away if you have unexplained symptoms such as:
 - nausea or vomiting
 - stomach pain
 - unusual or unexplained tiredness
 - loss of appetite
 - dark urine
 - yellowing of your skin or the whites of your eyes.
- Macular edema** (a diabetic eye disease with swelling in the back of the eye). Tell your doctor right away if you have any changes in your vision. Your doctor should check your eyes regularly. Very rarely, some people have had vision changes due to swelling in the back of the eye while taking rosiglitazone maleate tablets.
- Fractures (broken bones)**, usually in the hand, upper arm or foot. Talk to your doctor for advice on how to keep your bones healthy.
- Low red blood cell count (anemia).**
- Low blood sugar (hypoglycemia).** Lightheadedness, dizziness, shakiness or hunger may mean that your blood sugar is too low. This can happen if you skip meals, if you use another medicine that lowers blood sugar, or if you have certain medical problems. Call your doctor if low blood sugar levels are a problem for you.

- Ovulation** (release of egg from an ovary in a woman) leading to pregnancy. Ovulation may happen in premenopausal women who do not have regular monthly periods. This can increase the chance of pregnancy. See “**What should I tell my doctor before taking rosiglitazone maleate tablets?**”.

The most common side effects of rosiglitazone maleate tablets reported in clinical trials included cold-like symptoms and headache.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store rosiglitazone maleate tablets?

- Store rosiglitazone maleate tablets at room temperature, 20° to 25°C (68° to 77°F). Keep rosiglitazone maleate tablets in the container they come in.

- Safely, throw away rosiglitazone maleate tablets that are out of date or no longer needed.

- Keep rosiglitazone maleate tablets and all medicines out of the reach of children.

General information about rosiglitazone maleate tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use rosiglitazone maleate tablets for a condition for which they were not prescribed. Do not give rosiglitazone maleate tablets to other people, even if they have the same symptoms you have. They may harm them.

This Medication Guide summarizes important information about rosiglitazone maleate tablets. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about rosiglitazone maleate tablets that is written for healthcare professionals. You can also find out more about rosiglitazone maleate tablets by calling Teva Pharmaceuticals at 1-888-838-2872, MEDICAL AFFAIRS.

What are the ingredients in rosiglitazone maleate tablets?

Active Ingredient: rosiglitazone maleate.

Inactive Ingredients: croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and triacetin. In addition, the 2 mg tablet contains FD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains iron oxide black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

Always check to make sure that the medicine you are taking is the correct one. Rosiglitazone maleate tablets are round and standard-convex and look like this:

2 mg – pink with “93” on one side and “7322” on the other.

4 mg – orange with “93” on one side and “7323” on the other.

8 mg – red-brown with “93” on one side and “7324” on the other.

All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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8.3 Nursing Mothers
Drug-related material was detected in milk from lactating rats. It is not known whether rosiglitazone maleate is excreted in human milk. Because many drugs are excreted in human milk, rosiglitazone maleate should not be administered to a nursing woman.

8.4 Pediatric Use
After placebo run-in including diet counseling, children with type 2 diabetes mellitus, aged 10 to 17 years and with a baseline mean body mass index (BMI) of 33 kg/m², were randomized to treatment with 2 mg twice daily of rosiglitazone (n = 99) or 500 mg twice daily of metformin (n = 101) in a 24 week, double-blind clinical trial. As expected, FPG decreased in patients naïve to diabetes medication (n = 104) and increased in patients with previous prior medication (usually metformin) (n = 90) during the run-in period. After at least 8 weeks of treatment, 49% of patients treated with rosiglitazone maleate and 55% of metformin-treated patients had their dose doubled if FPG > 126 mg/dL. For the overall intent-to-treat population, at week 24, the mean change from baseline in HbA1c was -0.14% with rosiglitazone maleate and -0.49% with metformin. There was an insufficient number of patients in this trial to establish statistically whether these observed mean treatment effects were similar or different. Treatment effects differed for patients naïve to therapy with antidiabetic drugs and for patients previously treated with antidiabetic therapy (Table 8).

Table 8. Week 24 FPG and HbA1c Change From Baseline Last Observation-Carried Forward in Children With Baseline HbA1c ≥ 6.5%

	Naïve Patients		Previously-Treated Patients	
	Metformin	Rosiglitazone	Metformin	Rosiglitazone
	N = 40	N = 45	N = 43	N = 32
FPG (mg/dL)				
Baseline (mean)	170	165	221	205
Change from baseline (mean)	-21	-11	-33	-5
Adjusted treatment difference^a (rosiglitazone–metformin) (95% CI)				
% of patients with ≥ 30 mg/dL decrease from baseline	43%	27%	44%	28%
HbA1c (%)				
Baseline (mean)	8.3	8.2	8.8	8.5
Change from baseline (mean)	-0.7	-0.5	-0.4	0.1
Adjusted treatment difference^a (rosiglitazone–metformin) (95% CI)				
% of patients with ≥ 0.7% decrease from baseline	63%	52%	54%	31%

^a Change from baseline means are least squares means adjusting for baseline HbA1c, gender and region.
b Positive values for the difference favor metformin.
Treatment differences, depended on baseline BMI or weight such that the effects of rosiglitazone maleate and metformin appeared more closely comparable among heavier patients. The median weight was 2.8 kg with rosiglitazone and 0.2 kg with metformin [see *Warnings and Precautions* (5.5)]. Fifty-four percent of patients treated with rosiglitazone and 32% of patients treated with metformin gained < 2 kg, and 5% of patients treated with rosiglitazone and 7% of patients treated with metformin gained > 5 kg on trial.
Adverse events observed in this trial are described in *Adverse Reactions* (6.1).

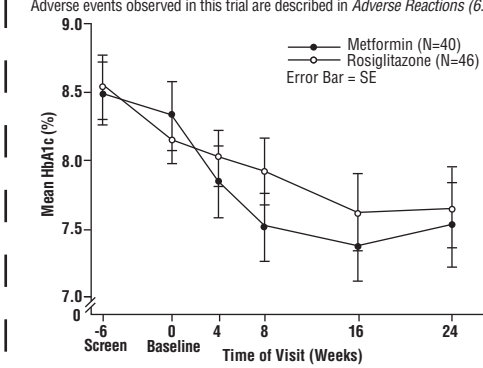


Figure 2. Mean HbA1c Over Time in a 24 Week Trial of Rosiglitazone Maleate and Metformin in Pediatric Patients — Drug-Naïve Subgroup

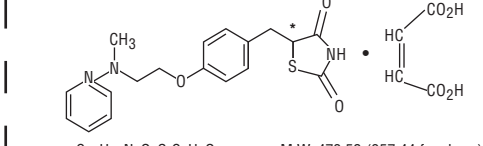
8.5 Geriatric Use
Results of the population pharmacokinetic analysis showed that age does not significantly affect the pharmacokinetics of rosiglitazone [see *Clinical Pharmacology* (12.3)]. Therefore, no dosage adjustments are required for the elderly. In controlled clinical trials, no overall differences in safety and effectiveness between older (> 65 years) and younger (< 65 years) patients were observed.

10 OVERDOSAGE
Limited data are available with regard to overdosage in humans. In clinical trials in volunteers, rosiglitazone maleate has been administered at single oral doses of up to 20 mg and was well-tolerated. In the event of an overdose, appropriate supportive treatment should be initiated as dictated by the patient's clinical status.

11 DESCRIPTION
Rosiglitazone maleate is an oral antidiabetic agent which acts primarily by increasing insulin sensitivity. Rosiglitazone maleate improves glycemic control while reducing circulating insulin levels.

Rosiglitazone maleate is not chemically or functionally related to the sulfonylureas, the biguanides, or the alpha-glucosidase inhibitors.

Chemically, rosiglitazone maleate is (±)-5-[14-(2-{methyl-2-pyridinylamino} ethoxy) phenyl(methyl)-2,4-thiazolidinedione], (2)-2-butenediolate (1:1). The molecule has a single chiral center and is present as a racemate. Due rapid interconversion, the enantiomers are functionally indistinguishable. The structural formula of rosiglitazone maleate is:



C19H19N3O5SC4H4O4 M.W. 473.52 (357.44 free base)
Rosiglitazone maleate is a white to off-white solid with a melting point range of 122° to 123°C. The pKa values of rosiglitazone maleate are 6.8 and 6.1. It is readily soluble in ethanol and a buffered aqueous solution with a pH of 2.3; solubility decreases with increasing pH in the physiological range.

Each round, standard-convex, coated tablet contains rosiglitazone maleate equivalent to rosiglitazone, 2 mg, 4 mg, or 8 mg, for oral administration. Inactive ingredients are croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and triacetin. In addition, the 2 mg tablets contain FD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains iron oxide black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Rosiglitazone, a member of the thiazolidinedione class of antidiabetic agents, improves glycemic control by improving insulin sensitivity. Rosiglitazone is a highly selective and potent agonist for the peroxisome proliferator-activated receptor-gamma (PPARγ). In humans, PPAR receptors are found in key target tissues for insulin action such as adipose tissue, skeletal muscle, and liver. Activation of PPARγ nuclear receptors regulates the transcription of insulin-responsive genes involved in the control of glucose production, transport, and utilization. In addition, PPARγ-responsive genes also participate in the regulation of fatty acid metabolism. Insulin resistance is a common feature characterizing the pathogenesis of type 2 diabetes. The antidiabetic activity of rosiglitazone has been demonstrated in animal models of type 2 diabetes in which hyperglycemia and/or impaired glucose tolerance is a consequence of insulin resistance in target tissues. Rosiglitazone reduces blood glucose concentrations and reduces hyperinsulinemia in the ob/ob obese mouse, db/db diabetic mouse, and fa/fa fatty Zucker rat.

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In animal models, the antidiabetic activity of rosiglitazone was shown to be mediated by increased sensitivity to insulin's action in the liver, muscle, and adipose tissues. Pharmacological studies in animal models indicate that rosiglitazone inhibits hepatic gluconeogenesis. The expression of the insulin-regulated glucose transporter GLUT-4 was increased in adipose tissue. Rosiglitazone did not induce hypoglycemia in animal models of type 2 diabetes and/or impaired glucose tolerance.

12.2 Pharmacodynamics
Patients with lipid abnormalities were not excluded from clinical trials of rosiglitazone maleate. In all 26 week controlled trials, across the recommended dose range, rosiglitazone maleate as monotherapy was associated with increases in total cholesterol, LDL and HDL and decreases in triglyceride levels. These changes were statistically significantly different from placebo or glyburide controls (Table 9).

Increases in LDL occurred primarily during the first 1 to 2 months of therapy with rosiglitazone maleate and LDL levels remained elevated above baseline throughout the trials. In contrast, HDL continued to rise over time. As a result, the LDL/HDL ratio peaked after 2 months of therapy and then appeared to decrease over time. Because of the temporal nature of lipid changes, the 52 week glyburide-controlled trial is most pertinent to assess long-term effects on lipids. At baseline, week 26, and week 52, mean LDL/HDL ratios were 3.1, 3.2, and 3.0, respectively, for rosiglitazone 4 mg twice daily. The corresponding values for glyburide were 3.2, 3.1, and 2.9. The differences in change from baseline between rosiglitazone maleate and glyburide at week 52 were statistically significant.

The pattern of LDL and HDL changes following therapy with rosiglitazone maleate in combination with other hypoglycemic agents were generally similar to those seen with rosiglitazone maleate in monotherapy.

The changes in triglycerides during therapy with rosiglitazone maleate were variable and were generally not statistically different from placebo or glyburide controls.

Table 9. Summary of Mean Lipid Changes in 26 Week Placebo-Controlled and 52 Week Glyburide-Controlled Monotherapy Trials

Placebo-Controlled Trials		Glyburide-Controlled Trial			
Week 26		Week 26 and Week 52			
Placebo	Rosiglitazone	Glyburide 8 mg daily ^a	Glyburide 2 mg daily ^a	Glyburide 2 mg daily ^a	Rosiglitazone
N	N	Wk 26	Wk 52	Wk 26	Wk 52
Free fatty acids					
Baseline (mean)	207	428	436	161	166
N	181	175	179	264	264
% Change from baseline (mean)	+0.2%	-7.8%	-14.7%	-2.4%	-4.7%
LDL					
Baseline (mean)	190	400	374	175	160
N	123.7	126.8	125.3	142.7	141.9
% Change from baseline (mean)	+4.8%	+14.1%	+18.6%	-0.9%	-0.5%
HDL					
Baseline (mean)	208	429	436	184	170
N	44.1	44.4	43.0	47.2	47.7
% Change from baseline (mean)	+8.0%	+11.4%	+14.2%	+4.3%	+8.7%
LDL/HDL					
Baseline (mean)	44.1	44.4	43.0	47.2	47.7
N	44.1	44.4	43.0	47.2	47.7
% Change from baseline (mean)	+8.0%	+11.4%	+14.2%	+4.3%	+8.7%

^a Once daily and twice daily dosing groups were combined.

12.3 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.4 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.5 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.6 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.7 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.8 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.9 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.10 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.11 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.12 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.13 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.14 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.15 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.16 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

12.17 Pharmacokinetics
Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

Pediatric: Pharmacokinetic parameters of rosiglitazone in pediatric patients were established using a population pharmacokinetic analysis with sparse data from 36 pediatric patients. The population included 33 males and 63 females with ages ranging from 10 to 17 years (weights ranging from 35 to 178.3 kg). Population mean CL/F and V/F of rosiglitazone were 3.15 L/hr 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.

Renal Impairment: 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 to subjects with normal renal function. No dosage adjustment is therefore required in such patients receiving rosiglitazone maleate. Since metformin is contraindicated in patients with renal impairment, coadministration of metformin with rosiglitazone maleate is contraindicated in these patients.

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

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

Gemfibrozil: 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 to 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)].

Long-Term Clinical Trials: Long-term maintenance of effect was evaluated with glyburide (3.75 to 10 mg/day) for 7 days did not alter the mean steady-state 24 hour plasma glucose concentrations in diabetic patients stabilized on glyburide therapy. Repeat doses of rosiglitazone (8 mg once daily) for 8 days in healthy adult 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 maleate.

Glimperide: Single oral doses of glimepiride in 14 healthy adult subjects had no clinically significant effect on the steady-state pharmacokinetics of rosiglitazone maleate. 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.

Metformin: Concurrent administration of rosiglitazone (2 mg twice daily) and metformin (500 mg twice daily) in healthy volunteers for 4 days had no effect on the steady-state pharmacokinetics of either metformin or rosiglitazone.

Acarbose: Coadministration of acarbose (100 mg three times daily) for 7 days in healthy volunteers had no clinically relevant effect on the pharmacokinetics of a single oral dose of rosiglitazone maleate.

Digoxin: Repeat oral dose of 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 maleate had no clinically relevant effect on the steady-state pharmacokinetics of warfarin enantiomers.

Ethanol: A single administration of a moderate amount of alcohol did not increase the risk of acute hypoglycemia in type 2 diabetes mellitus patients treated with rosiglitazone maleate.

Ranitidine: Pretreatment with ranitidine (150 mg twice daily for 4 days) did not alter the pharmacokinetics of either single oral or intravenous doses of rosiglitazone in healthy volunteers. These results suggest that the absorption of oral rosiglitazone is not altered in conditions accompanied by increases in gastrointestinal pH.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Carcinogenesis: A 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, 0.3, and 2 mg/kg/day (highest dose equivalent to approximately 10 and 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 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 to be 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 UDS 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 had no effects on mating or fertility of female rats given up to 40 mg/kg/day (approximately 116 times human AUC at the maximum recommended human daily dose). In female rats in association with lower plasma levels of progesterone and estradiol (approximately 20 and 200 times human AUC at the maximum recommended human daily dose, respectively). No such effects were noted at 0.2 mg/kg/day (approximately 3 times human AUC at the maximum recommended human daily dose). In juvenile rats dosed from 27 days of age through to sexual maturity (at up to 40 mg/kg/day), there was no effect on male reproductive performance, or on estrous cyclicity, mating performance or pregnancy incidence in females (approximately 68 times human AUC at the maximum recommended human daily dose). In monkeys, rosiglitazone (0.6 and 4.6 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 luteinizing hormone surge, lower luteal phase progesterone levels, and amenorrhea. The mechanism for these effects appears to be direct inhibition of ovarian steroidogenesis.

13.2 Animal Toxicology and/or Pharmacology
Heart weights were increased in mice (3 mg/kg/day), rats (5 mg/kg/day),

ROSIGLITAZONE MALEATE TABLETS

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use rosiglitazone maleate tablets safely and effectively. See full prescribing information for rosiglitazone maleate tablets for complete boxed warning.	
WARNING: CONGESTIVE HEART FAILURE AND MYOCARDIAL INFARCTION See full prescribing information for complete boxed warning.	
• Thiazolidinediones, including rosiglitazone, cause or exacerbate congestive heart failure in some patients (5.1). After initiation of rosiglitazone maleate tablets, and after dose increases, observe patients carefully for signs and symptoms of heart failure (including excessive, rapid weight gain, dyspnea, and/or edema). If these signs and symptoms develop, the heart failure should be managed according to current standards of care. Furthermore, discontinuation or dose reduction of rosiglitazone maleate tablets must be considered.	
• Rosiglitazone maleate tablets are not recommended in patients with symptomatic heart failure. Initiation of rosiglitazone maleate tablets in patients with established NYHA Class III or IV heart failure is contraindicated (4, 5.1).	
• A meta-analysis of 52 clinical trials (mean duration 6 months; 16,995 total patients), most of which compared rosiglitazone maleate to placebo, showed rosiglitazone maleate to be associated with a statistically significant increased risk of myocardial infarction. Three other trials (mean duration 46 months; 14,067 total patients), comparing rosiglitazone maleate to some other approved oral antidiabetic agents or placebo, showed a statistically non-significant increased risk of myocardial infarction and a statistically non-significant increased risk of death. There have been no clinical trials directly comparing cardiovascular risk of rosiglitazone maleate and (ACTOS®) (pioglitazone, another thiazolidinedione), but in a separate trial, pioglitazone (when compared to placebo) did not show an increased risk of myocardial infarction or death. (6.2)	
• Because of the potential increased risk of myocardial infarction, rosiglitazone maleate tablets are available only through a restricted distribution program called the AVANDIA®-Rosiglitazone Medicines Access Program. Both prescribers and patients need to enroll in the program. To enroll, call 1-800-AVANDIA or visit www.AVANDIA.com. [See Warnings and Precautions (5.3)].	
----- MAJOR CHANGES ----- Boxed Warning 02/2011 Indications and Usage (1) 02/2011 Dosage and Administration (2) 02/2011 Warnings and Precautions (5.1) 02/2011 Warnings and Precautions, Major Adverse Cardiovascular Events (5.2) 02/2011 Warnings and Precautions, Rosiglitazone REMS Program (5.3) 05/2012 Warnings and Precautions, Fractures (5.8) 02/2011	

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- Rosiglitazone maleate tablets may be prescribed alone or with other diabetes medicines. This will depend on how well your blood sugar is controlled.
- Take rosiglitazone maleate tablets with or without food.
- It can take 2 weeks for rosiglitazone maleate tablets to start lowering blood sugar. It may take 2 to 3 months to see the full effect on your blood sugar level.
- If you miss a dose of rosiglitazone maleate tablets, take it as soon as you remember, unless it is time to take your next dose. Take your next dose at the usual time. Do not take double doses to make up for a missed dose.

- If you take too many rosiglitazone maleate tablets, call your doctor or poison control center right away.
- Test your blood sugar regularly as your doctor tells you.
- Diet and exercise can help your body use its blood sugar better. It is important to stay on your recommended diet, lose extra weight, and get regular exercise while taking rosiglitazone maleate tablets.
- Your doctor should do blood tests to check your liver before you start rosiglitazone maleate tablets and during treatment as needed. Your doctor should also do regular blood sugar tests (for example, "A1C") to monitor your response to rosiglitazone maleate tablets.

- Your doctor should do blood tests to check your liver before you start rosiglitazone maleate tablets and during treatment as needed. Your doctor should also do regular blood sugar tests (for example, "A1C") to monitor your response to rosiglitazone maleate tablets.

What are possible side effects of rosiglitazone maleate tablets? Rosiglitazone maleate tablets may cause serious side effects including:

- **New or worse heart failure.** See “What is the most important information I should know about rosiglitazone maleate tablets?”.
- **Heart attack.** See “What is the most important information I should know about rosiglitazone maleate tablets?”.
- **Swelling (edema).** Rosiglitazone maleate tablets can cause swelling due to fluid retention. See “What is the most important information I should know about rosiglitazone maleate tablets?”.
- **Weight gain.** Rosiglitazone maleate tablets can cause weight gain that may be due to fluid retention or extra body fat. Weight gain can be a serious problem for people with certain conditions including heart problems. See “What is the most important information I should know about rosiglitazone maleate tablets?”.

- **Liver problems.** It is important for your liver to be working normally when you take rosiglitazone maleate tablets. Your doctor should do blood tests to check your liver before you start taking rosiglitazone maleate tablets and during treatment as needed. Call your doctor right away if you have unexplained symptoms such as:
 - nausea or vomiting
 - stomach pain
 - unusual or unexplained tiredness
 - loss of appetite
 - dark urine
 - yellowing of your skin or the whites of your eyes.

- **Macular edema** (a diabetic eye disease with swelling in the back of the eye). Tell your doctor right away if you have any changes in your vision. Your doctor should check your eyes regularly. Very rarely, some people have had vision changes due to swelling in the back of the eye while taking rosiglitazone maleate tablets.

- **Fractures (broken bones)**, usually in the hand, upper arm or foot. Talk to your doctor for advice on how to keep your bones healthy.

- **Low red blood cell count (anemia).**
- **Low blood sugar (hypoglycemia).** Lightheadedness, dizziness, shakiness or hunger may mean that your blood sugar is too low. This can happen if you skip meals, if you use another medicine that lowers blood sugar, or if you have certain medical problems. Call your doctor if low blood sugar levels are a problem for you.

- **Ovulation** (release of egg from an ovary in a woman) leading to pregnancy. Ovulation may happen in premenopausal women who do not have regular monthly periods. This can increase the chance of pregnancy. See “What should I tell my doctor before taking rosiglitazone maleate tablets?”.

The most common side effects of rosiglitazone maleate tablets reported in clinical trials included cold-like symptoms and headache.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store rosiglitazone maleate tablets?

- Store rosiglitazone maleate tablets at room temperature, 20° to 25°C (68° to 77°F). Keep rosiglitazone maleate tablets in the container they come in.

- Safely, throw away rosiglitazone maleate tablets that are out of date or no longer needed.
- Keep rosiglitazone maleate tablets and all medicines out of the reach of children.

General information about rosiglitazone maleate tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use rosiglitazone maleate tablets for a condition for which they were not prescribed. Do not give rosiglitazone maleate tablets to other people, even if they have the same symptoms you have. They may harm them.

This Medication Guide summarizes important information about rosiglitazone maleate tablets. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about rosiglitazone maleate tablets that is written for healthcare professionals. You can also find out more about rosiglitazone maleate tablets by calling Teva Pharmaceuticals at 1-888-838-2872, MEDICAL AFFAIRS.

What are the ingredients in rosiglitazone maleate tablets? Active Ingredient: rosiglitazone maleate.

Inactive Ingredients: croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and triacetin. In addition, the 2 mg tablet contains FD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains iron oxide black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

Always check to make sure that the medicine you are taking is the correct one. Rosiglitazone maleate tablets are round and standard-convex and look like this:

2 mg – pink with “93” on one side and “7322” on the other.

4 mg – orange with “93” on one side and “7323” on the other.

8 mg – red-brown with “93” on one side and “7324” on the other.

All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

TEVA PHARMACEUTICALS USA
Sellersville, PA 18960

8.3 Nursing Mothers Drug-related material was detected in milk from lactating rats. It is not known whether rosiglitazone maleate is excreted in human milk. Because many drugs are excreted in human milk, rosiglitazone maleate should not be administered to a nursing woman.

8.4 Pediatric Use After placebo run-in including diet counseling, children with type 2 diabetes mellitus, aged 10 to 17 years and with a baseline mean body mass index (BMI) of 33 kg/m², were randomized to treatment with 2 mg twice daily of rosiglitazone (n = 99) or 500 mg twice daily of metformin (n = 101) in a 24 week, double-blind clinical trial. As expected, FPG decreased in patients naïve to diabetes medication (n = 104) and increased in patients with previous prior medication (usually metformin) (n = 90) during the run-in period. After at least 8 weeks of treatment, 49% of patients treated with rosiglitazone maleate and 55% of metformin-treated patients had their dose doubled if FPG > 126 mg/dL. For the overall intent-to-treat population, at week 24, the mean change from baseline in HbA1c was -0.14% with rosiglitazone maleate and -0.49% with metformin. There was an insufficient number of patients in this trial to establish statistically whether these observed mean treatment effects were similar or different. Treatment effects differed for patients naïve to therapy with antidiabetic drugs and for patients previously treated with antidiabetic therapy (Table 8).

Table 8. Week 24 FPG and HbA1c Change From Baseline Last Observation-Carried Forward in Children With Baseline HbA1c ≥ 6.5%

	Naïve Patients		Previously-Treated Patients	
	Metformin	Rosiglitazone	Metformin	Rosiglitazone
	N = 40	N = 45	N = 43	N = 32
FPG (mg/dL)				
Baseline (mean)	170	165	221	205
Change from baseline (mean)	-21	-11	-33	-5
Adjusted treatment difference ^a (rosiglitazone–metformin) (95% CI)		8		21
% of patients with ≥ 30 mg/dL increase from baseline	43%	27%	44%	28%
HbA1c (%)				
Baseline (mean)	8.3	8.2	8.8	8.5
Change from baseline (mean)	-0.7	-0.5	-0.4	0.1
Adjusted treatment difference ^a (rosiglitazone–metformin) (95% CI)		0.2		0.5
% of patients with ≥ 0.7% decrease from baseline	63%	52%	54%	31%

^a Change from baseline means are least squares means adjusting for baseline HbA1c, gender and region. ^b Positive values for the difference favor metformin. Treatment differences depended on baseline BMI or weight such that the effects of rosiglitazone maleate and metformin appeared more closely comparable among heavier patients. The median weight was 2.8 kg with rosiglitazone and 0.2 kg with metformin [see *Warnings and Precautions* (5.5)]. Fifty-four percent of patients treated with rosiglitazone and 32% of patients treated with metformin gained > 2 kg, and 5% of patients treated with rosiglitazone and 7% of patients treated with metformin gained > 5 kg on trial. Adverse events observed in this trial are described in *Adverse Reactions* (6.1).

	Naïve Patients		Previously-Treated Patients	
	Metformin	Rosiglitazone	Metformin	Rosiglitazone
	N = 40	N = 45	N = 43	N = 32
FPG (mg/dL)				
Baseline (mean)	170	165	221	205
Change from baseline (mean)	-21	-11	-33	-5
Adjusted treatment difference ^a (rosiglitazone–metformin) (95% CI)		8		21
% of patients with ≥ 30 mg/dL increase from baseline	43%	27%	44%	28%
HbA1c (%)				
Baseline (mean)	8.3	8.2	8.8	8.5
Change from baseline (mean)	-0.7	-0.5	-0.4	0.1
Adjusted treatment difference ^a (rosiglitazone–metformin) (95% CI)		0.2		0.5
% of patients with ≥ 0.7% decrease from baseline	63%	52%	54%	31%

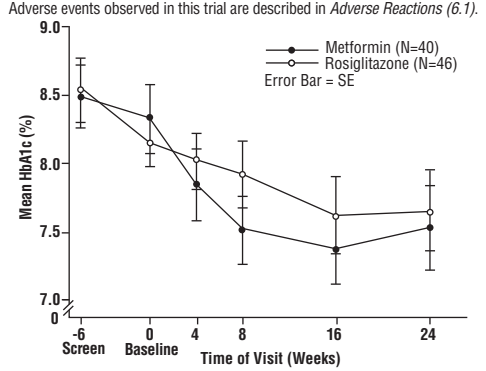


Figure 2. Mean HbA1c Over Time in a 24 Week Trial of Rosiglitazone Maleate and Metformin in Pediatric Patients — Drug-Naïve Subgroup

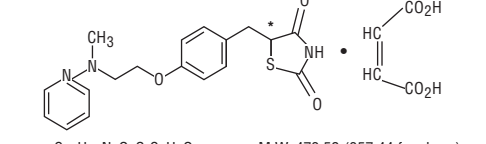
8.5 Geriatric Use Results of the population pharmacokinetic analysis showed that age does not significantly affect the pharmacokinetics of rosiglitazone [see *Clinical Pharmacology* (12.3)]. Therefore, no dosage adjustments are required for the elderly. In controlled clinical trials, no overall differences in safety and effectiveness between older (> 65 years) and younger (< 65 years) patients were observed.

10 OVERDOSES Limited data are available with regard to overdose in humans. In clinical trials in volunteers, rosiglitazone maleate has been administered at single oral doses of up to 20 mg and was well-tolerated. In the event of an overdose, appropriate supportive treatment should be initiated as dictated by the patient's clinical status.

11 DESCRIPTION Rosiglitazone maleate is an oral antidiabetic agent which acts primarily by increasing insulin sensitivity. Rosiglitazone maleate improves glycemic control while reducing circulating insulin levels.

Rosiglitazone maleate is not chemically or functionally related to the sulfonylureas, the biguanides, or the alpha-glucosidase inhibitors. Chemically, rosiglitazone maleate is (±)-5-[14-[2-(methyl-2-pyridinylamino) ethoxy] phenyl(methyl)-2,4-thiazolidinedione], (2)-2-butenediolate (1:1).

The molecule has a single chiral center and is present as a racemate. Due rapid interconversion, the enantiomers are functionally indistinguishable. The structural formula of rosiglitazone maleate is:



Rosiglitazone maleate is a white to off-white solid with a melting point range of 122° to 123°C. The pKa values of rosiglitazone maleate are 6.8 and 11. It is readily soluble in ethanol and a buffered aqueous solution with a pH of 2.3; solubility decreases with increasing pH in the physiological range. Each round, standard-convex, coated tablet contains rosiglitazone maleate equivalent to rosiglitazone, 2 mg, 4 mg, or 8 mg, for oral administration. Inactive ingredients are croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and triacetin. In addition, the 2 mg tablet contains FD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains iron oxide black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

Clinical Pharmacology

12.1 Mechanism of Action Rosiglitazone, a member of the thiazolidinedione class of antidiabetic agents, improves glycemic control by improving insulin sensitivity. Rosiglitazone is a highly selective and potent agonist for the peroxisome proliferator-activated receptor-γ (PPAR-γ). In humans, PPAR receptors are found in key target tissues for insulin action such as adipose tissue, skeletal muscle, and liver. Activation of PPAR-γ nuclear receptors regulates the transcription of insulin-responsive genes involved in the control of glucose production, transport, and utilization. In addition, PPAR-γ-responsive genes also participate in the regulation of fatty acid metabolism. Insulin resistance is a common feature characterizing the pathogenesis of type 2 diabetes. The antidiabetic activity of rosiglitazone has been demonstrated in animal models of type 2 diabetes in which hyperglycemia and/or impaired glucose tolerance is a consequence of insulin resistance in target tissues. Rosiglitazone reduces blood glucose concentrations and reduces hyperinsulinemia in the ob/ob obese mouse, db/db diabetic mouse, and fa/fa fatty Zucker rat.

This label may not be updated by the FDA. For current labeling information, please visit <https://www.fda.gov/drugsatfda>

In animal models, the antidiabetic activity of rosiglitazone was shown to be mediated by increased sensitivity to insulin's action in the liver, muscle, and adipose tissues. Pharmacological studies in animal models indicate that rosiglitazone inhibits hepatic gluconeogenesis. The expression of the insulin-regulated glucose transporter GLUT-4 was increased in adipose tissue. Rosiglitazone did not induce hypoglycemia in animal models of type 2 diabetes and/or impaired glucose tolerance.

12.2 Pharmacodynamics Patients with lipid abnormalities were not excluded from clinical trials of rosiglitazone maleate. In all 26 week controlled trials, across the recommended dose range, rosiglitazone maleate as monotherapy was associated with increases in total cholesterol, LDL and HDL and decreases in triglyceride levels. These changes were statistically significantly different from placebo or glyburide controls (Table 9).

Increases in LDL occurred primarily during the first 1 to 2 months of therapy with rosiglitazone maleate and LDL levels remained elevated above baseline throughout the trials. In contrast, HDL continued to rise over time. As a result, the LDL/HDL ratio peaked after 2 months of therapy and then appeared to decrease over time. Because of the temporal nature of lipid changes, the 52 week glyburide-controlled trial is most pertinent to assess long-term effects on lipids. At baseline, week 26, and week 52, mean LDL/HDL ratios were 3.1, 3.2, and 3.0, respectively, for rosiglitazone 4 mg twice daily. The corresponding values for glyburide were 3.2, 3.1, and 2.9. The differences in change from baseline between rosiglitazone maleate and glyburide at week 52 were statistically significant.

The pattern of LDL and HDL changes following therapy with rosiglitazone maleate in combination with other hypoglycemic agents were generally similar to those seen with rosiglitazone maleate in monotherapy.

The changes in triglycerides during therapy with rosiglitazone maleate were variable and were generally not statistically different from placebo or glyburide controls.

Table 9. Summary of Mean Lipid Changes in 26 Week Placebo-Controlled and 52 Week Glyburide-Controlled Monotherapy Trials

	Placebo-Controlled Trials				Glyburide-Controlled Trial			
	Week 26		Week 26 and Week 52		Week 26 and Week 52		Week 26 and Week 52	
	Placebo	Rosiglitazone	Glyburide	Rosiglitazone	Placebo	Rosiglitazone	Glyburide	Rosiglitazone
	N	N	N	N	N	N	N	N
Free fatty acids								
Baseline (mean)	207	428	436	181	168	166	145	166
% Change from baseline (mean)	+0.2%	-7.8%	-14.7%	-2.4%	-4.7%	-20.8%	-21.5%	-21.5%
LDL								
Baseline (mean)	190	400	374	175	160	161	133	133
% Change from baseline (mean)	+4.8%	+14.1%	+18.6%	-0.9%	-0.5%	+11.9%	+12.1%	+12.1%
HDL								
Baseline (mean)	208	429	436	184	170	170	145	145
% Change from baseline (mean)	+8.0%	+11.4%	+14.2%	+4.3%	+8.7%	+14.0%	+18.5%	+18.5%

^a Once daily and twice daily dosing groups were combined.

12.3 Pharmacokinetics Rosiglitazone plasma concentration (C_{max}) and the area under the curve (AUC) of rosiglitazone increase in a dose-proportional manner over the therapeutic dose range (Table 10). The elimination half-life is 3 to 4 hours and is independent of dose.

Parameter	1 mg Fasting	2 mg Fasting	8 mg Fasting	8 mg Fed
AUC _{0-∞} (ng·h/mL)	358	733	2,971	2,890
C _{max} (ng/mL)	112	184	(730)	(795)
t _{1/2} (h)	76	156	598	432
Half-life (h)	13	42	(117)	(92)
Cl _r (mL/min)	3.16	3.15	3.37	3.59
Cl _r /Cr (0.72)	(0.72)	(0.39)	(0.63)	(0.70)
Cl _{cr} /Cr (3.03)	2.89	2.85	2.97	2.97
Cl _{cr} /Cr (0.87)	(0.87)	(0.71)	(0.69)	(0.81)

Absorption: The absolute bioavailability of rosiglitazone is 99%. Peak plasma concentrations are observed about 1 hour after dosing. Administration of rosiglitazone with food resulted in no change in overall exposure (AUC), but there was an approximately 28% decrease in C_{max} and a delay in T_{max} (1.75 hours). These changes are not likely to be clinically significant; therefore, rosiglitazone maleate may be administered with or without food.

Distribution: The mean (CV%) oral volume of distribution (V_{ss}/F) of rosiglitazone is approximately 7.6 (30%) liters, based on a population pharmacokinetic analysis. Rosiglitazone is approximately 99.8% bound to plasma proteins, primarily albumin.

Metabolism: Rosiglitazone is extensively metabolized with no unchanged drug excreted in the urine. The major routes of rosiglitazone metabolism are N-demethylation and N-hydroxylation. The major metabolite is the N-demethylated and N-hydroxylated metabolite, which is excreted in the urine and is glucuronidated. All circulating metabolites are considerably less potent than parent 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.

Excretion: Following oral or intravenous administration of [¹⁴C]rosiglitazone maleate, approximately 64% and 23% of the dose was eliminated in the urine and in the feces, respectively. The plasma half-life of [¹⁴C]related material ranged from 103 to 156 hours.

Population Pharmacokinetics in Patients With Type 2 Diabetes: Population pharmacokinetic analyses from 3 large clinical trials including 642 men and 495 women with type 2 diabetes (aged 35 to 80 years) showed that the pharmacokinetics of rosiglitazone are not influenced by age, race, smoking, or alcohol consumption. Both oral clearance (CL/F) and oral steady-state volume of distribution (V_{ss}/F) were shown to increase with increases in body weight. Over the molecular weight range observed in these analyses (60 to 150 kg), the range of predicted CL/F and V_{ss}/F values varied by < 1.7 fold and < 2.3 fold, respectively. Additionally, rosiglitazone CL/F was shown to be influenced by both weight and gender, being lower (about 15%) in female patients.

Special Populations: Geriatric: Results of the population pharmacokinetic analysis in patients ≥ 65 years of age showed that age does not significantly affect the pharmacokinetics of rosiglitazone.

Gender: Results of the population pharmacokinetics analysis showed that the mean oral clearance of rosiglitazone in female patients (n = 405) was approximately 6% lower compared to male patients of the same body weight (n = 642).

As monotherapy and in combination with metformin, rosiglitazone maleate improved glycemic control in both male and female. In metformin combination trials, efficacy was demonstrated with no gender differences in glycemic response.

In monotherapy trials, a greater therapeutic response was observed in females; however, in more obese patients, gender differences were less evident. For a given body mass index (BMI), females tend to have a greater BMI than males. Since the molecular target PPAR-γ is expressed in adipose tissues, this differentiating characteristic may account, at least in part, for the greater response to rosiglitazone maleate in females. Since therapy should be individualized, no dose adjustments are necessary based on gender and/or body mass index.

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

Pediatric: Pharmacokinetic parameters of rosiglitazone in pediatric patients were established using a population pharmacokinetic analysis with sparse data from 36 pediatric patients. In a single-blind, placebo-controlled trial including 53 males and 63 females with ages ranging from 10 to 17 years (weights ranging from 35 to 178.3 kg), Population mean CL/F and V/F of rosiglitazone were 3.15 L/hr 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.

Renal Impairment: 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 to subjects with normal renal function. No dosage adjustment is therefore required in such patients receiving rosiglitazone maleate. Since metformin is contraindicated in patients with renal impairment, coadministration of metformin with rosiglitazone maleate is contraindicated in these patients.

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

12.4 Drug-Drug Interactions

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

Gemfibrozil: 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 to 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)].

Ritampir: Ritampir administration (600 mg once a day), an inducer of CYP2C8, for 6 days is reported to decrease rosiglitazone AUC by 66%, compared to 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 glucose 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 maleate.

Glimperide: Single oral doses of glimepiride in 14 healthy adult subjects had no clinically significant effect on the steady-state pharmacokinetics of rosiglitazone maleate. 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.

Metformin: Concurrent administration of rosiglitazone (2 mg twice daily) and metformin (500 mg twice daily) in healthy volunteers for 4 days had no effect on the steady-state pharmacokinetics of either metformin or rosiglitazone.

Acarbose: Coadministration of acarbose (100 mg three times daily) for 7 days in healthy volunteers had no clinically relevant effect on the pharmacokinetics of a single oral dose of rosiglitazone maleate.

Digoxin: Repeat oral dose of rosiglitzone (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 maleate had no clinically relevant effect on the steady-state pharmacokinetics of warfarin enantiomers.

Ethanol: A single administration of a moderate amount of alcohol did not increase the risk of acute hypoglycemia in type 2 diabetes mellitus patients treated with rosiglitazone maleate.

Ranitidine: Pretreatment with ranitidine (150 mg twice daily for 4 days) did not alter the pharmacokinetics of either single oral or intravenous doses of rosiglitazone in healthy volunteers. These results suggest that the absorption of oral rosiglitazone is not altered in conditions accompanied by increases in gastrointestinal pH.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility **Carcinogenesis:** A 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, 0.3, and 2 mg/kg/day (highest dose equivalent to approximately 10 and 20 times human AUC at the maximum recommended human daily dose for male and female rats, respectively).

MEDICATION GUIDE

Rosiglitazone Maleate Tablets

Read this Medication Guide carefully before you start taking rosiglitazone maleate tablets and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment. If you have any questions about rosiglitazone maleate tablets, ask your doctor or pharmacist.

What is the most important information I should know about rosiglitazone maleate tablets?

Rosiglitazone maleate tablets is available only through the AVANDIA-Rosiglitazone Medicines Access Program. Both you and your doctor must be enrolled in the program so that you can get rosiglitazone maleate tablets. To enroll, you must:

- talk to your doctor,
- understand all the risks and benefits of rosiglitazone maleate tablets, and
- agree to enroll in the program.

Rosiglitazone maleate tablets may cause serious side effects, including: New or worse heart failure

- Rosiglitazone maleate tablets can cause your body to keep extra fluid (fluid retention), which leads to swelling (edema) and weight gain. Extra body fluid can make some heart problems worse or lead to heart failure. Heart failure means your heart does not pump blood well enough.
- If you have severe heart failure, you cannot start rosiglitazone maleate tablets.
- If you have heart failure with symptoms (such as shortness of breath or swelling), even if these symptoms are not severe, rosiglitazone maleate tablets may not be right for you.

Call your doctor right away if you have any of the following:

- swelling or fluid retention, especially in the ankles or legs
- shortness of breath or trouble breathing, especially when you lie down
- an unusually fast increase in weight
- unusual tiredness

Myocardial Infarction (“Heart Attack”)

Rosiglitazone maleate tablets may raise the risk of a heart attack. The risk of having a heart attack may be higher in people who take rosiglitazone maleate tablets with insulin. Most people who take insulin should not also take rosiglitazone maleate tablets.

Symptoms of a heart attack can include the following:

- chest discomfort in the center of your chest that lasts for more than a few minutes, or that goes away or comes back
- chest discomfort that feels like uncomfortable pressure, squeezing, fullness or pain
- pain or discomfort in your arms, back, neck, jaw or stomach
- shortness of breath with or without chest discomfort
- breaking out in a cold sweat
- nausea or vomiting
- feeling lightheaded

Call your doctor or go to the nearest hospital emergency room right away if you think you are having a heart attack.

People with diabetes have a greater risk for heart problems. It is important to work with your doctor to manage other conditions, such as high blood pressure or high cholesterol.

Rosiglitazone maleate tablets can have other serious side effects. Be sure to read the section below **“What are possible side effects of rosiglitazone maleate tablets?”**

What are rosiglitazone maleate tablets?

Rosiglitazone maleate tablets are a prescription medicine used with diet and exercise to treat certain adults with type 2 (adult-onset or non-insulin dependent) diabetes mellitus (high blood sugar) who are:

- already taking rosiglitazone maleate tablets or
- unable to control their blood sugar on other diabetes medicines, and after talking with their doctor have decided not to take pioglitazone (ACTOS®)

Rosiglitazone maleate tablets help to control high blood sugar. Rosiglitazone maleate tablets may be used alone or with other diabetes medicines. Rosiglitazone maleate tablets can help your body respond better to insulin made in your body. Rosiglitazone maleate tablets do not cause your body to make more insulin.

Rosiglitazone maleate tablets are not for people with type 1 diabetes mellitus or to treat a condition called diabetic ketoacidosis. It is not known if rosiglitazone maleate tablets are safe and effective in children under 18 years old.

Who should not take rosiglitazone maleate tablets?

Many people with heart failure should not start taking rosiglitazone maleate tablets. See **“What should I tell my doctor before taking rosiglitazone maleate tablets?”**.

What should I tell my doctor before taking rosiglitazone maleate tablets?

Before starting rosiglitazone maleate tablets, ask your doctor about what the choices are for diabetes medicines, and what the expected benefits and possible risks are for you in particular.

Before taking rosiglitazone maleate tablets, tell your doctor about all your medical conditions, including if you:

- **have heart problems or heart failure.**
- **have type 1 (“juvenile”) diabetes or had diabetic ketoacidosis.** These conditions should be treated with insulin.
- **have a type of diabetic eye disease called macular edema** (swelling of the back of the eye).
- **have liver problems.** Your doctor should do blood tests to check your liver before you start taking rosiglitazone maleate tablets and during treatment as needed.
- **had liver problems while taking REZULIN® (troglitazone), another medicine for diabetes.**
- **are pregnant or plan to become pregnant.** Rosiglitazone maleate tablets should not be used during pregnancy. It is not known if rosiglitazone maleate tablets can harm your unborn baby. You and your doctor should talk about the best way to control your diabetes during pregnancy. If you are a premenopausal woman (before the “change of life”) who does not have regular monthly periods, rosiglitazone maleate tablets may increase your chances of becoming pregnant. Talk to your doctor about birth control choices while taking rosiglitazone maleate tablets. Tell your doctor right away if you become pregnant while taking rosiglitazone maleate tablets.
- **are breast-feeding or planning to breast-feed.** It is not known if rosiglitazone maleate passes into breast milk. You should not use rosiglitazone maleate tablets while breast-feeding.

Tell your doctor about all the medicines you take including prescription and non-prescription medicines, vitamins or herbal supplements. Rosiglitazone maleate tablets and certain other medicines can affect each other and may lead to serious side effects including high or low blood sugar, or heart problems. Especially tell your doctor if you take:

- **insulin.**
- **any medicines for high blood pressure, high cholesterol or heart failure, or for prevention of heart disease or stroke.**

Know the medicines you take. Keep a list of your medicines and show it to your doctor and pharmacist before you start a new medicine. They will tell you if it is alright to take rosiglitazone maleate tablets with other medicines.

How should I take rosiglitazone maleate tablets?

- Take rosiglitazone maleate tablets exactly as prescribed. Your doctor will tell you how many tablets to take and how often. The usual daily starting dose is 4 mg a day taken one time each day or 2 mg taken two times each day. Your doctor may need to adjust your dose until your blood sugar is better controlled.

- Rosiglitazone maleate tablets may be prescribed alone or with other diabetes medicines. This will depend on how well your blood sugar is controlled.
- Take rosiglitazone maleate tablets with or without food.
- It can take 2 weeks for rosiglitazone maleate tablets to start lowering blood sugar. It may take 2 to 3 months to see the full effect on your blood sugar level.
- If you miss a dose of rosiglitazone maleate tablets, take it as soon as you remember, unless it is time to take your next dose. Take your next dose at the usual time. Do not take double doses to make up for a missed dose.
- If you take too many rosiglitazone maleate tablets, call your doctor or poison control center right away.
- Test your blood sugar regularly as your doctor tells you.
- Diet and exercise can help your body use its blood sugar better. It is important to stay on your recommended diet, lose extra weight, and get regular exercise while taking rosiglitazone maleate tablets.
- Your doctor should do blood tests to check your liver before you start rosiglitazone maleate tablets and during treatment as needed. Your doctor should also do regular blood sugar tests (for example, “A1C”) to monitor your response to rosiglitazone maleate tablets.

What are possible side effects of rosiglitazone maleate tablets?

Rosiglitazone maleate tablets may cause serious side effects including:

- **New or worse heart failure.** See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Heart attack.** See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Swelling (edema).** Rosiglitazone maleate tablets can cause swelling due to fluid retention. See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Weight gain.** Rosiglitazone maleate tablets can cause weight gain that may be due to fluid retention or extra body fat. Weight gain can be a serious problem for people with certain conditions including heart problems. See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Liver problems.** It is important for your liver to be working normally when you take rosiglitazone maleate tablets. Your doctor should do blood tests to check your liver before you start taking rosiglitazone maleate tablets and during treatment as needed. Call your doctor right away if you have unexplained symptoms such as:
 - nausea or vomiting
 - stomach pain
 - unusual or unexplained tiredness
 - loss of appetite
 - dark urine
 - yellowing of your skin or the whites of your eyes.
- **Macular edema** (a diabetic eye disease with swelling in the back of the eye). Tell your doctor right away if you have any changes in your vision. Your doctor should check your eyes regularly. Very rarely, some people have had vision changes due to swelling in the back of the eye while taking rosiglitazone maleate tablets.
- **Fractures (broken bones),** usually in the hand, upper arm or foot. Talk to your doctor for advice on how to keep your bones healthy.
- **Low red blood cell count (anemia).**
- **Low blood sugar (hypoglycemia).** Lightheadedness, dizziness, shakiness or hunger may mean that your blood sugar is too low. This can happen if you skip meals, if you use another medicine that lowers blood sugar, or if you have certain medical problems. Call your doctor if low blood sugar levels are a problem for you.

Reference ID: 3248447

- **Ovulation** (release of egg from an ovary in a woman) leading to pregnancy. Ovulation may happen in premenopausal women who do not have regular monthly periods. This can increase the chance of pregnancy. See “**What should I tell my doctor before taking rosiglitazone maleate tablets?**”.

The most common side effects of rosiglitazone maleate tablets reported in clinical trials included cold-like symptoms and headache.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store rosiglitazone maleate tablets?

- Store rosiglitazone maleate tablets at room temperature, 20° to 25°C (68° to 77°F). Keep rosiglitazone maleate tablets in the container they come in.
- Safely, throw away rosiglitazone maleate tablets that are out of date or no longer needed.
- Keep rosiglitazone maleate tablets and all medicines out of the reach of children.

General information about rosiglitazone maleate tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use rosiglitazone maleate tablets for a condition for which they were not prescribed. Do not give rosiglitazone maleate tablets to other people, even if they have the same symptoms you have. They may harm them.

This Medication Guide summarizes important information about rosiglitazone maleate tablets. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about rosiglitazone maleate tablets that is written for healthcare professionals. You can also find out more about rosiglitazone maleate tablets by calling Teva Pharmaceuticals at 1-888-838-2872, MEDICAL AFFAIRS.

What are the ingredients in rosiglitazone maleate tablets?

Active Ingredient: rosiglitazone maleate.

Inactive Ingredients: croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and triacetin. In addition, the 2 mg tablet contains FD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains iron oxide black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

Always check to make sure that the medicine you are taking is the correct one. Rosiglitazone maleate tablets are round and standard-convex and look like this:

2 mg – pink with “93” on one side and “7322” on the other.

4 mg – orange with “93” on one side and “7323” on the other.

8 mg – red-brown with “93” on one side and “7324” on the other.

All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Manufactured In Israel By:
TEVA PHARMACEUTICAL IND. LTD.
Jerusalem, 91010, Israel

Manufactured For:
TEVA PHARMACEUTICALS USA
Sellersville, PA 18960

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MEDICATION GUIDE

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- breaking out in a cold sweat
- nausea or vomiting
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- **have liver problems.** Your doctor should do blood tests to check your liver before you start taking rosiglitazone maleate tablets and during treatment as needed.
- **had liver problems while taking REZULIN® (troglitazone), another medicine for diabetes.**
- **are pregnant or plan to become pregnant.** Rosiglitazone maleate tablets should not be used during pregnancy. It is not known if rosiglitazone maleate tablets can harm your unborn baby. You and your doctor should talk about the best way to control your diabetes during pregnancy. If you are a premenopausal woman (before the “change of life”) who does not have regular monthly periods, rosiglitazone maleate tablets may increase your chances of becoming pregnant. Talk to your doctor about birth control choices while taking rosiglitazone maleate tablets. Tell your doctor right away if you become pregnant while taking rosiglitazone maleate tablets.
- **are breast-feeding or planning to breast-feed.** It is not known if rosiglitazone maleate passes into breast milk. You should not use rosiglitazone maleate tablets while breast-feeding.

Tell your doctor about all the medicines you take including prescription and non-prescription medicines, vitamins or herbal supplements. Rosiglitazone maleate tablets and certain other medicines can affect each other and may lead to serious side effects including high or low blood sugar, or heart problems. Especially tell your doctor if you take:

- **insulin.**
- **any medicines for high blood pressure, high cholesterol or heart failure, or for prevention of heart disease or stroke.**

Know the medicines you take. Keep a list of your medicines and show it to your doctor and pharmacist before you start a new medicine. They will tell you if it is alright to take rosiglitazone maleate tablets with other medicines.

How should I take rosiglitazone maleate tablets?

- Take rosiglitazone maleate tablets exactly as prescribed. Your doctor will tell you how many tablets to take and how often. The usual daily starting dose is 4 mg a day taken one time each day or 2 mg taken two times each day. Your doctor may need to adjust your dose until your blood sugar is better controlled.

- Rosiglitazone maleate tablets may be prescribed alone or with other diabetes medicines. This will depend on how well your blood sugar is controlled.
- Take rosiglitazone maleate tablets with or without food.
- It can take 2 weeks for rosiglitazone maleate tablets to start lowering blood sugar. It may take 2 to 3 months to see the full effect on your blood sugar level.
- If you miss a dose of rosiglitazone maleate tablets, take it as soon as you remember, unless it is time to take your next dose. Take your next dose at the usual time. Do not take double doses to make up for a missed dose.
- If you take too many rosiglitazone maleate tablets, call your doctor or poison control center right away.
- Test your blood sugar regularly as your doctor tells you.
- Diet and exercise can help your body use its blood sugar better. It is important to stay on your recommended diet, lose extra weight, and get regular exercise while taking rosiglitazone maleate tablets.
- Your doctor should do blood tests to check your liver before you start rosiglitazone maleate tablets and during treatment as needed. Your doctor should also do regular blood sugar tests (for example, “A1C”) to monitor your response to rosiglitazone maleate tablets.

What are possible side effects of rosiglitazone maleate tablets?

Rosiglitazone maleate tablets may cause serious side effects including:

- **New or worse heart failure.** See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Heart attack.** See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Swelling (edema).** Rosiglitazone maleate tablets can cause swelling due to fluid retention. See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Weight gain.** Rosiglitazone maleate tablets can cause weight gain that may be due to fluid retention or extra body fat. Weight gain can be a serious problem for people with certain conditions including heart problems. See “**What is the most important information I should know about rosiglitazone maleate tablets?**”.
- **Liver problems.** It is important for your liver to be working normally when you take rosiglitazone maleate tablets. Your doctor should do blood tests to check your liver before you start taking rosiglitazone maleate tablets and during treatment as needed. Call your doctor right away if you have unexplained symptoms such as:
 - nausea or vomiting
 - stomach pain
 - unusual or unexplained tiredness
 - loss of appetite
 - dark urine
 - yellowing of your skin or the whites of your eyes.
- **Macular edema** (a diabetic eye disease with swelling in the back of the eye). Tell your doctor right away if you have any changes in your vision. Your doctor should check your eyes regularly. Very rarely, some people have had vision changes due to swelling in the back of the eye while taking rosiglitazone maleate tablets.
- **Fractures (broken bones),** usually in the hand, upper arm or foot. Talk to your doctor for advice on how to keep your bones healthy.
- **Low red blood cell count (anemia).**
- **Low blood sugar (hypoglycemia).** Lightheadedness, dizziness, shakiness or hunger may mean that your blood sugar is too low. This can happen if you skip meals, if you use another medicine that lowers blood sugar, or if you have certain medical problems. Call your doctor if low blood sugar levels are a problem for you.

- **Ovulation** (release of egg from an ovary in a woman) leading to pregnancy. Ovulation may happen in premenopausal women who do not have regular monthly periods. This can increase the chance of pregnancy. See “**What should I tell my doctor before taking rosiglitazone maleate tablets?**”.

The most common side effects of rosiglitazone maleate tablets reported in clinical trials included cold-like symptoms and headache.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store rosiglitazone maleate tablets?

- Store rosiglitazone maleate tablets at room temperature, 20° to 25°C (68° to 77°F). Keep rosiglitazone maleate tablets in the container they come in.
- Safely, throw away rosiglitazone maleate tablets that are out of date or no longer needed.
- Keep rosiglitazone maleate tablets and all medicines out of the reach of children.

General information about rosiglitazone maleate tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use rosiglitazone maleate tablets for a condition for which they were not prescribed. Do not give rosiglitazone maleate tablets to other people, even if they have the same symptoms you have. They may harm them.

This Medication Guide summarizes important information about rosiglitazone maleate tablets. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about rosiglitazone maleate tablets that is written for healthcare professionals. You can also find out more about rosiglitazone maleate tablets by calling Teva Pharmaceuticals at 1-888-838-2872, MEDICAL AFFAIRS.

What are the ingredients in rosiglitazone maleate tablets?

Active Ingredient: rosiglitazone maleate.

Inactive Ingredients: croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and triacetin. In addition, the 2 mg tablet contains FD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains iron oxide black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

Always check to make sure that the medicine you are taking is the correct one. Rosiglitazone maleate tablets are round and standard-convex and look like this:

2 mg – pink with “93” on one side and “7322” on the other.

4 mg – orange with “93” on one side and “7323” on the other.

8 mg – red-brown with “93” on one side and “7324” on the other.

All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

TEVA PHARMACEUTICALS USA

Sellersville, PA 18960

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