







Reference ID: 3248447

ROSIGLITAZONE MALEATE Tablets

NDC 0093-7323-05

500 TABLETS

4 ma*





| | Manufa TEVA PI Jerusale Manufa TEVA PI Sellersv | Dispense as define closure (a KEEP THI THE REA | Usual Do: prescribin Store at 20 Controlled | ★Each rosiglita rosiglita | NDC 0093-7324-05 |
|----------------|---|--|--|---|---|
| N 0093-7324-05 | tured In Israel By: HARMACEUTICAL IND. LTD. m, 91010, Israel ctured For: HARMACEUTICALS USA HARMACEUTICALS USA | spense in a tight, light-resistant container defined in the USP, with a child-resistant sure (as required). EP THIS AND ALL MEDICATIONS OUT OF IE REACH OF CHILDREN. | Usual Dosage: See package insert for full prescribing information. Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. | ★Each film-coated tablet contains rosiglitazone maleate equivalent to 8 mg rosiglitazone. | ROSIGLITAZONE MALEATE Tablets 8 mg* PHARMACIST: Dispense the accompanying Medication Guide to each patient. By only |
| | lss. 12/2012 | | | | 500 TABLETS |
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|-----------------------|--|---|----------------------|--|--|
| N 0093-7324-05 8 | KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN. TEVA PHARMACEUTICALS USA Seliersville, PA 18960 | 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). | nsert fo | ★ Each film-coated tablet contains rosiglitazone maleate equivalent to 8 mg rosiglitazone. | ROSIGLITAZONE MALEATE Tablets 8 mg* PHARMACIST: Dispense the accompanying Medication Guide to each patient. |
| lss. 12/2012 | | | | | 500 TABLETS |
| Reference ID: 3248447 | | | | | |

This label may not be the latest approved by FDA.

Rosiglitazone maleate tablets are WARNING: CONGESTIVE HEART FAILURE AND MYOCARDIAL NYHA Class III or IV heart failure is contraindicated. Rosiglitazone maleate

Patients experiencing acute coronary syndromes have not been studied in controlled clinical trials. In view of the potential for development of heart failure in patients having an acute coronary event, initiation of rosiglitazone maleate is not recommended for patients experiencing an acute coronary event, and discontinuation of rosiglitazone maleate during this acute phas

Patients with NYHA Class III and IV cardiac status (with or without CHE) have not been studied in controlled clinical trials. Bosi not recommended in patients with NYHA Class III and IV cardiac status. Congestive Heart Failure During Coadministration of Rosiglitazone **aleate With Insulin:** In trials in which rosiglitazone maleate was added to sulin, rosiglitazone maleate increased the risk of congestive heart failure

administration of rosiglitazone maleate and insulin is not recommended see Indications and Usage (1) and Warnings and Precautions (5.2) 7 controlled, randomized, double-blind trials which had durations from 16 to 26 weeks and which were included in a meta-analysis¹ [see Warnings and Precautions (5.2)], patients with type 2 diabetes mellitus were maleate and insul ndomized to coadministration of rosiglitazone maleate and insulin = 1,018) or insulin (N = 815). In these 7 trials, rosiglitazone maleate vas added to insulin. These trials included patients with long-standing abetes (median duration of 12 years) and a high prevalence of preexisting edical conditions, including peripheral neuropathy, retinopathy, ischemi

Heart Failure in Observational Studies of Elderly Diabetic Patients Comparing Rosiglitazone Maleate to Pioglitazone (ACTOS): Three observational studies²⁻⁴ in elderly diabetic patients (age 65 years and older) found that rosiglitazone maleate statistically significantly increased the risk hospitalized heart failure compared to use of pioglitazone (ACTOS). One The theorem is the statistically significant increase in emergency department visits or in a long-term, randomized, placebo-controlled, 2×2 factorial trial index is the statistically significant increase in emergency department visits or in a long-term, randomized, placebo-controlled, 2×2 factorial trial index is the statistically significant increase in emergency department visits or in a long-term, randomized, placebo-controlled, 2×2 factorial trial index is the statistically significant increase in emergency department visits or in a long-term, randomized, placebo-controlled, 2×2 factorial trial index is the statistically significant increase in emergency department visits or in a long-term, randomized, placebo-controlled, 2×2 factorial trial index is the statistically significant increase in emergency department visits or in a long-term, randomized, placebo-controlled, 2×2 factorial trial index is the statistically significant increase in emergency department visits or index is the statistical visit in the relative hospitalization for heart failure in patients treated with rosiglitazone maleate

compared to pioglitazone (ACTOS) in the older subgroup. 5.2 Major Adverse Cardiovascular Events

Cardiovascular adverse events have been evaluated in a meta-analysis of 52 clinical trials, in long-term, prospective, randomized, controlled trials,

Meta-Analysis of Major Adverse Cardiovascular Events in a Group of 52 Clinical Trials: A meta-analysis was conducted retrospectively to assess cardiovascular adverse events reported across 52 double-blind, randomized, ntrolled clinical trials (mean duration 6 months).1 These trials had bee conducted tailed tails fried totation of the set of the and add-on trials (rosiglitazone maleate or placebo, added to sulfonylurea tformin, or insulin). Active control trials included monotherapy trials (monotherapy with rosigilitazone malate versus sulfonylurea or metormin, monotherapy) and ad-on trials (rosigilitazone malate plus sulfonylurea or metormin). A total of 16,995 patients were included (10,039 in treatment groups containing total of 16,995 patients were included (10,039 in treatment groups containing). The increased risk of myocardial infarction observed in the meta-analysis total of 16,995 patients were included (10,039 in treatment groups containing rosiglitazone maleate, 6,956 in comparator groups), with 5,167 patient-years of exposure to rosiglitazone maleate than for patients who received comparators (see Table 2). (see Table 2

Table 2. Occurrence of Cardiovascular Events in a Meta-Analysis of CV-related mortality. 52 Clinical Trials

| Eventa | Rosiglitazone Maleate (N = 10,039) n (%) | Comparator (N = 6,956) n (%) |
|---|--|------------------------------------|
| MACE (a composite of myocardial infarction, cardiovascular death, or stroke) | 70 (0.7) | 39 (0.6) |
| Myocardial Infarction | 45 (0.4) | 20 (0.3) |
| Cardiovascular Death | 17 (0.2) | 9 (0.1) |
| Stroke | 18 (0.2) | 16 (0.2) |
| All-cause Death | 29 (0.3) | 17 (0.2) |

Events are not exclusive: i.e., a patient with a cardiovascular dea due to a myocardial infarction would be counted in 4 event categori (myocardial infarction; myocardial infarction, cardiovascular death, Events are not exc stroke; cardiovascular death; all-cause death).

this analysis, a statistically significant increased risk of myocardial arction with rosigilitation maleate versus pooled comparators was served. Analyses were performed using a composite of major adverse roliovascular events (myocardial infarction, stroke, and cardiovascular ath), referred to hereafter as MACE. Rosiglitazone maleate had a statistically non-significant increased risk of MACE compared to the pooled comparators. A statistically significant increased risk of myocardia farction and statistically non-significant increased risk of MACE with siglitazone maleate was observed in the placebo-controlled trials. In the there was no increased risk of myocardial infarction

or MACE (see Figure 1 and Table 3). Placeb RSG vs pla Active RSG VS CC 0039 8124 5636 2119 1918 z 54 28 16 (0.8%) 14 (0.7%) 39 39 (%) .7%) .5%) 7%) 6%) 5 51 13 33 9 (0.4%) (0.2%) (0.5%) (0.5%) (%) .4%) .3%)

Figure 1. Forest Plot of Odds Ratios (95% Confidence Intervals) for MACE Table 3. Occurrence of MACE and Myocardial Infarction in a Meta-Analysis of 52 Clinical Trials by Trial Type

| | | | M | ACE | Myocardial Infarction | | |
|----------------------------------|-----------|--------|-----------|----------------|-----------------------|----------------|--|
| | | N | n (%) | OR (95% CI) | n (%) | OR (95% CI) | |
| Active- Controlled | RSG | 2,119 | 16 (0.8%) | 1.05 | 10 (0.5%) | 1.00 | |
| Trials | Control | 1,918 | 14 (0.7%) | (0.48, 2.34) | 9 (0.5%) | (0.36, 2.82) | |
| Placebo- Controlled Trials | RSG | 8,124 | 54 (0.7%) | 1.53 | 35 (0.4%) | 2.23 | |
| | Placebo | 5,636 | 28 (0.5%) | (0.94, 2.54) | 13 (0.2%) | (1.14, 4.64) | |
| 0 | RSG | 10,039 | 70 (0.7%) | 1.44 | 45 (0.4%) | 1.8 | |
| Overall | Control | 6,956 | 39 (0.6%) | (0.95, 2.20) | 20 (0.3%) | (1.03, 3.25) | |
| RSG = rosię | glitazone | | | | | | |

Of the placebo-controlled trials in the meta-analysis, 7 trials had patients The place of consiglitazone maleate plus insulin for insulin. There were more patients in the rosiglitazone maleate plus insulin group compared to the insulin group with myocardial infarctions, MACE, cardiovascular deaths, and all-cause deaths (see Table 4). The total number of patients with stroke was 5 (0.5%) and 4 (0.5%) in the rosiglitazone maleate plus stroke was 5 (0.5%) and 4 (0.5%) in the rosiglitazone maleate plus insulin alone, Nates, at hough free wates stroke was 5 (0.5%) and 4 (0.5%) in the rosiglitazone maleate plus stroke was 5 (0.5%) and 4 (0.5%) in the rosiglitazone maleate plus insulin alone, Nates, at hough free wates insulin alone). Rates of hypoglycemia, confirmed by capillary blood stroke was 5 (0.5%) and 4 (0.5%) in the rosiglitazone maleate plus insulin alone, Nates, at hough free wates insulin alone). Rates of hypoglycemia, confirmed by capillary blood wates (2.6 kg (-1.0, 4.8) for glyburide, and -2.4 kg (-5.4, 0.5) for metformin.

| Eventa | Rosiglitazone Maleate (N = 1,018) (%) | Insulin (N = 815) (%) | OR (95% CI) | |
|--|--|-----------------------------|--------------------|--|
| MACE (a composite of myocardial infarction, cardiovascular death, or stroke) | 1.3 | 0.6 | 2.14 (0.70, 7.83) | |
| Myocardial infarction | 0.6 | 0.1 | 5.6 (0.67, 262.7) | |
| Cardiovascular death | 0.4 | 0.0 | ND, (0.47, ∞) | |
| All cause death | 0.6 | 0.2 | 2.19 (0.38, 22.61) | |
| ND = not defined | | | | |

Events are not exclusive: i.e., a patient with a cardiovascular death due to a myocardial infarction would be counted in 4 event categories (myocardial infarction: myocardial infarction, cardiovascular death, or stroke: cardiovascular death: all-cause death

Myocardia Infarction Events in Large. Long-Term, Prospective, Randomized, Controlled Trials of Rosiglitazone Maleate: Data from 3 large, long-term, prospective, randomized, controlled clinical trials of rosiglitazone maleate were assessed separately from the meta-analysis.⁶⁻⁸ The control of the c

In a long-term, randomized, piaceuo-cuintoneu, 2 2 lactoria una fuero reactive react myocardial infraction was higher in the subset of subjects who received rosiglitazone maleate in combination with ramipril than among subjects who received ramipril alone but not in the subset of subjects who received rosiglitazone maleate alone compared to placebo ⁶ The higher incidence of myocardial infraction among subjects who received rosiglitazone maleate in combination with ramipril was not confirmed in the two other large (total N = 8.798) long-term, randomized, active-controlled clinical trials and a choice of the source of

There have been no adequately designed clinical trials directly comparing

pioglitazone (ACTOS).²⁻⁴ One observational study⁵ in patients with a mean age of 54 years found no difference in all-cause mortality between patients treated with rosiglitazone maleate compared to pioglitazone (ACTOS) and reported similar results in the subpopulation of patients > 65 years of age One additional small, prospective, observational study¹⁰ found no statistically significant differences for CV mortality and all-cause mortality in nationts significant differences for CV mortality and all-cause mortality in patients in clinical trials; therefore, the frequency of this occurrence is not known. treated with rosiglitazone maleate compared to pioglitazone (ACTOS).

Rosiglitazone REMS (Risk Evaluation and Mitigation Strategy) Program

sigilitazone maleate tablets are available only through a restricted stribution program called the AVANDIA-Rosigilitazone Medicines Access ogram [see Indications and Usage (1)]. Both prescribers and patients are be able to respect ust enroll in the program to be able to prescribe or receive rosiglitazone have been treated with rosiglitazone maleate. aleate tablets, respectively. Rosiglitazone maleate tablets will be available Short-Term Trials of Rosiglitazone Maleate as Monotherapy and in 6.3 Postmarketing Experience only from specially certified pharmacies participating in the program. As part of the program, prescribers will be educated about the program. As part of the program, prescribers will be educated about the potential increased risk of myocardial infarction and the need to limit the use of rosiglitazone maleate tablets to eligible patients. Prescribers will need to discuss with patients the risks and benefits of taking rosiglitazone maleate

litazone maleate should be used with caution in patients with edema. In a clinical trial in healthy volunteers who received 8 mg of rosiglitazone

which can exacerbate or lead to congestive heart failure, rosiglitazone maleate should be used with caution in patients at risk for heart failure. Boxed Warning, Warnings and Precautions (5.1), and Patient Counseling

Reactions (6.1)]. Weight Gain

combination with other hypoglycemic agents (**Table 5**). The mechanism f weight gain is unclear but probably involves a combination of fluid In postmarketing experience, there have been reports of unusually rapid

or fluid accumulation and volume-related events such as excessive edema Events of anemia and edema tended to be reported more frequently at

l Group 4 mg 8 mg Median Median Median (25th, 75th (25th, 75th (25th, 75th **Control Group** (-2.8, 0.9) (-0.9, 3.6)(1.1, 5.8) N = 436 N = 439 (0, 4.0) (-0.6, 4.0) (0, 5.3) N = 173 N = 150 N = 157 therapy Ifonylurea 24 to 26 (-1.0, 1.3) (0.5, 4.0) (1.4, 5.9) weeks N = 1.155 N = 613 N = 841 -1.4 0.8 2.1 (-3.2, 0.2) (-1.0, 2.6) (0, 4.3) weeks N = 175 N = 100 N = 184 0.9 4.1 5.4 (-0.5, 2.7) (1.4, 6.3) (3.4, 7.3) weeks N = 162 N = 164 N = 150
 sulfonylurea
 0.2
 2.5
 4.5

 +
 (-1.2, 1.6)
 (0.8, 4.6)
 (2.4, 7.3)

 metformin
 N = 272
 N = 275
 N = 276
 metformin | weeks

HIGHLIGHTS OF PRESCRIBING ----- INDICATIONS AND USAGE ----- FULL PRESCRIBING INFORMATION INFORMATION These highlights do not include all the information needed to use rosiglitazone maleate tablets safely and effectively. See full prescribing information for patient of the risks and benefits of osialitazone maleate tablets. drug is indicated as an adjunct ROSIGLITAZONE maleate tablets to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus who either are:

Initial II.S. Annroval: 1999 WARNING: CONGESTIVE HEART

already taking rosiglitazone FAILURE AND MYOCARDIAL INFARCTION not already taking rosiglitazone

See full prescribing informat for complete boxed warning.

Thiazolidinediones, includin rosiglitazone, cause or exacerbate congestive heart failure in some patients (5.1). After initiation of siglitazone maleate tablets, and after dose increases, observe patients carefully for signs and symptoms of heart failure Other Important Limitations of Use: (including excessive, rapid weight ain. dvspnea. and/or edema) If these signs and symm develop, the heart failure should be managed according to current standards of care. Furthermore. nuation or dose reductio of rosiglitazone maleate tablet must be consi

Rosiglitazone maleate tablet vith symptoma . heart failure. Initiation c rosiglitazone maleate tablets in patients with established NYHA Class III or IV heart failure is icated. (4, 5,1) Do not initiate rosiglitazone

A meta-analysis of 52 clinical 6,995 total patients), most of which compared rosiglita maleate to placebo, showe rosialitazone maleate to be associated with a statisti tablets in the following strengths: significant increased risk of myocardial infarction. Three ther trials (mean duration 46 months: 14,067 total patients), comparing rosiglitazone maleate to some other approved oral antidiabetic agents or placebo, showed a statistically ion-significant increased ris of myocardial infarction and a statistically non-significar ecreased risk of death. There have been no clinical trials ectly comparing ca risk of rosiglitazone maleate and ACTOS® (pioglitazone,

another thiazolidine

n a separate trial, piogli

not show an increased risk

Because of the potential incre

nyocardial infarction or death.

risk of myocardial infarction,

vailable only through a restricte

distribution program called the AVANDIA®-Rosiglitazone Medicines Access Program. Both

prescribers and patients need to

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ROSIGLITAZONE MALEATE TABLETS

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enroll in the program. To enroll, call 1-800-AVANDIA or visit www.AVANDIA.com. [see Warnings and Precautions (5.3)]. --- BECENT MAJOB CHANGES ----Boxed Warning Indications and 02/201 Usage (1) Dosage and ministration (2) 02/201 Warnings and Precau Cardiac Failure (5.1) 02/2011 Warnings and Precautions Major Adverse Cardiovascula 02/2011 Events (5.2) Warnings and Precautions. Rosiglitazone REMS Program (5.3) Warnings and Precautions 02/2011 Fractures (5.8)

ommon adverse reactions (> 5%) ported in clinical trials without regard to causality were upper ratory tract infection, injury To report SUSPECTED ADVERSE EACTIONS, CONTACT TE VA 1-888-838-2872. X6351 or or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch ----- DRUG INTERACTIONS may increase rosiglitazone levels; inducers of CYP2C8 (e.g., rifampin) may decrease rosiglitazone levels. (7.1) 05/2012 See 17 for PATIENT COUNSELING INFORMATION and Medication

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| _ | | | | |
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| | | | | |
| | | | | |
| | | | | |

thiazolidinedione antidiabeti INFARCTION nes, including rosiglitazone, cause or exacerbat healthcare professional Thiazolidined congestive heart failure in some patients [see Warnings and has considered and advised the

osiglitazone maleate tablets, this

maleate tablets and are unable to

achieve adequate glycemic control

on other diabetes medication

and, in consultation with their

healthcare provider, have decide

not to take pioglitazone (ACTOS)

Rosiglitazone maleate tablets

should not be used in patients

with type 1 diabetes mellitus

or for the treatment of diabetic

naleate tablets and insulin is no

Coadministration of rosiglitazone

recommended. (1, 5.1, 5.2)

8 mg daily. (2)

accompanied

- DOSAGE AND ADMINISTRATION -

Start at 4 mg daily in single or

divided doses; do not exceed

Dose increases should he

related to fluid retention. (2)

monitoring for adverse events

active liver disease or increased

serum transaminase levels, (2,1)

- DOSAGE FORMS AND STRENGTHS -

Round, standard-convex, coated

Initiation of rosiglitazone maleate

VYHA Class III or IV heart failure is

- WARNINGS AND PRECAUTIONS -

exacerbate or lead to heart failure,

may occur. Combination use with

insulin and use in concestive

Increased risk of myocardial

infarction has been observed in a

meta-analysis of 52 clinical trials

Increased incidence of bone

---- ADVERSE REACTIONS ----

ncidence rate 0.4% versus

nded. (1, 5.1, 5.2)

II may increase risk of c cardiovascular effects. (5.1)

2 mg, 4 mg, and 8 mg (3)

----- CONTRAINDICATIONS

ablets in patients with estab

contraindicated. (4)

0.3%). (5.2)

Macula

reported. (5.7)

fracture. (5.8

maleate and insulir

careful

for medical reasons. (1)

maleate tablets, or

Precautions (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 neart failure should be managed according to current standards of should be considered. 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 tients with established NYHA Class III or IV heart failure is contraindicated Contraindications (4) and Warnings and Precautions (5.1)

A meta-analysis of 52 clinical trials (mean duration 6 months 6,995 total patients), most of which compared rosiglitazone maleate to placebo, showed rosiglitazone maleate to be associated with a tatistically significant increased risk of myocardial infarction. Three other trials (mean duration 46 months: 14.067 total patients), comparing origination emaleate to some other approved oral antidiabetic agents or placebo, showed a statistically non-significant increased risk of myocardial infarction, and a statistically non-significant decreased 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 inared to placebo) did not show an increased risk of myocardiz nfarction or death [see Warnings and Precautions (5.2)].

Because of the potential increased risk of myocardial infarctio rosiglitazione 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)1.

INDICATIONS AND USAGE onsultation with a healthcare professional who has considered and After consultation with a freathcare professional who has considered and advised the patient of the risks and benefits of rosiglitazone maleate tablets, this drug is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus who either are:

 already taking rosiglitazone maleate tablets, or • not already taking rosiglitazone maleate tablets and are unable to achieve adequate glycemic control on other diabetes medications and, in consultation with their healthcare provider, have decided not to take and in observational studies. pioglitazone (ACTOS) for medical reasons.

Other Important Limitations of Use:

· Due to its mechanism of action, rosiglitazone maleate is active only in the presence of endogenous insulin. Therefore, rosiglitazone maleate tablets should not be used in patients with type 1 diabetes mellitus or for the treatment of diabetic ketoacidosis The coadministration of rosiglitazone maleate tablets and insulin is not

ended [see Warnings and Precautions (5.1)].

DOSAGE AND ADMINISTRATION prescribing rosiglitazone maleate tablets, refer to *Indications and*) for appropriate patient selection. Only prescribers enrolled in VDIA-Rosiglitazone Medicines Access Program can prescribe rosiglitazone maleate tablets [see Warnings and Precautions (5.3)]

Rosiglitazone maleate tablets may be administered at a starting dose of 4 mg heart failure NYHA Class | and either as a single daily dose or in 2 divided doses. For patients who respond nadequately following 8 to 12 weeks of treatment, as determined by reduction in fasting plasma glucose (FPG), the dose may be increased to 8 mg daily Increases in the dose of rosiglitazone maleate tablets should be accompanied by careful monitoring for adverse events related to fluid retention [see Boxed *Warning and Warnings and Precautions (5.1)*]. Rosiglitazone maleate tablets may be taken with or without food.

The total daily dose of rosiglitazone maleate tablets should not exceed 8 mg Coadministration of rosiglitazone Patients receiving rosiglitazone maleate tablets in combination with other is not hypoglycemic agents may be at risk for hypoglycemia, and a reduction in 5,2) the dose of the concomitant agent may be necessary. Dose-related edema (5.4), weight 2.1

Specific Patient Populations

<u>Renal Impairment</u>: No dosage adjustment is necessary when rosiglitazone maleate tablets are used as monotherapy in patients with renal impairment. since metformin is contraindicated in such patients, concomitar administration of metformin and rosiglitazone maleate tablets are als contraindicated in patients with renal impairment.

Hepatic Impairment: Liver enzymes should be measured prior to initiating treatment with rosiglitazone maleate tablets. Therapy with rosiglitazone maleate 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 start of therapy). After initiation of rosiglitazone maleate tablets, liver enzymes should be monitored periodically per the clinical judgment of the healthcare professional [see Warnings and Precautions (5.6) and Clinical Pharmacology (12.3)].

Pediatric: Data are insufficient to recommend pediatric use of rosiglitazone maleate tablets [see Use in Specific Populations (8.4)]. DOSAGE FORMS AND STRENGTHS

standard-convex, coated tablet contains rosiglitazone as th maleate as follows:

• 2 mg - pink, debossed with "93" on one side and "7322" on the other • 4 mg - orange, debossed with "93" on one side and "7323" on the other

Inhibitors of CYP2C8 (e.g., gemfibrozil) • 8 mg - red-brown, debossed with "93" on one side and "7324" on the othe

CONTRAINDICATIONS

Initiation of rosiglitazone maleate tablets in patients with established New York Heart Association (NYHA) Class III or IV heart failure is ndicated [see Boxed Warning]

WARNINGS AND PRECAUTIONS

Cardiac Failure one maleate, like other thiazolidinediones, alone or in combination with other antidiabetic agents, can cause fluid retention, which may exacerbate or lead to heart failure. Patients should be observed for signs and symptoms of heart failure. 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 must be ered [see Boxed Warning].

Patients with congestive heart failure (CHF) NYHA Class I and II treated with rosiglitazone maleate have an increased risk of cardiovascular events. A 52 week, double-blind, placebo-controlled echocardiographic trial was cted in 224 patients with type 2 diabetes mellitus and NYHA Class I II CHF (ejection fraction \leq 45%) on background antidiabetic and Of the other velocities in additional and the other of the additional additional and additional and additional addit by investigators. Although no treatment difference in change from baseline f ejection fractions was observed more cardiovascular adverse events a treatment with ros litazone maleate compared to acebo during the 52 week trial (see Table 1

Table 1. Emergent Cardiovascular Adverse Events in Patients With Congestive Heart Failure (NYHA Class I and II) Treated With Rosiglitazone Maleate or

| Events | Rosiglitazone Maleate | Placebo |
|---|-----------------------|----------|
| | N = 110 | N = 114 |
| | n (%) | n (%) |
| Adjudicated | | |
| Cardiovascular deaths | 5 (5%) | 4 (4%) |
| CHF worsening | 7 (6%) | 4 (4%) |
| - with overnight hospitalization | 5 (5%) | 4 (4%) |
| - without overnight hospitalization | 2 (2%) | 0 (0%) |
| New or worsening edema | 28 (25%) | 10 (9%) |
| New or worsening dyspnea | 29 (26%) | 19 (17%) |
| Increases in CHF medication | 36 (33%) | 20 (18%) |
| Cardiovascular hospitalizationa | 21 (19%) | 15 (13%) |
| Investigator-reported, non-adjudicated | | |
| Ischemic adverse events | 10 (9%) | 5 (4%) |
| Myocardial infarction | 5 (5%) | 2 (2%) |
| – Angina | 6 (5%) | 3 (3%) |

des hospitalization for any cardiovascular reaso

For current labeling information, please visit https://www.fda.gov/drugsatfda

5.7

siglitazone maleate and comparator medications in overall mortality or

Mortality in Observational Studies of Rosiglitazone Maleate Compared to Pioglitazone (ACTOS): Three observational studies in elderly diabetic patients (age 65 years and older) found that rosiglitazone maleate statistically significantly increased the risk of all-cause mortality compared to use of pioglitazone (ACTOS).²⁻⁴ One observational study⁵ in patients with a mean result in

Because of the potential increased risk of myocardial infarction, tablets. To enroll, call 1-800-AVANDIA or visit www.AVANDIA.com. 5.4 Edema

noce daily for 8 weeks, there was a statistically significant increase in median plasma volume compared to placebo.

Since thiazolidinediones, including rosiglitazone, can cause fluid retention Patients should be monitored for signs and symptoms of heart failure [see

In controlled clinical trials of patients with type 2 diabetes, mild to noderate edema was reported in patients treated with rosiglitazone naleate, and may be dose related. Patients with ongoing edema were nore likely to have adverse events associated with edema if started on mbination therapy with insulin and rosiglitazone maleate [see Adverse

5.5

se-related weight gain was seen with rosiglitazone maleate alone and in

increases in weight and increases in excess of that generally observed in clinical trials. Patients who experience such increases should be assessed and congestive heart failure [see Boxed Warning].

Table 5. Weight Changes (kg) From Baseline at Endpoint During Clinical Trials

RSC -avor. RSC

Liver enzymes should be measured prior to the initiation of therapy with rosiglitazone maleate in all patients and periodically thereafter per the clinical judgment of the healthcare professional. Therapy with rosiglitazone maleate should not be initiated in patients with increased baseline liver enzyme screw (ALT) events 2.5X upper limit of normal) at baseline or during herapy with rosiglitazone maleate should be evaluated to determine the cause of the liver enzyme elevation. Initiation of, or continuation of, therapy with residiate in entire with milding and an elevation ver enzyme monitoring, to determine if the liver enzyme elevations resolve among the 3 treatment groups. to worstand in a day with resignation malacter, lower enzyme levels should be rechecked as soon as possible. If ALT levels remain > 3X the upper limit of normal, therapy with rosiglitazone malacter, liver enzyme levels should be discontinued.

If any patient develops symptoms suggesting hepatic dysfunction, which may include unexplained nausea, vomiting, abdominal pain, fatigue, anorexia and/or dark urine, liver enzymes should be checked. The decision whether to tinue the patient on therapy with rosiglitazone maleate should be guided by clinical judgment pending laboratory evaluations. If jaundice is observed using the provided the second se Macular Edema

Acular edema has been reported in postmarketing experience in some labetic patients who were taking rosiglitazone maleate or another thiazolidinedione. Some patients presented with blurred vision or decreased visual acuity, but some patients appear to have been diagnosed type 2 diabetes who were initiating oral agent monotherapy, and patients with with type 2 diabetes who ware initiating oral agent monotherapy, and patients with type 2 diabetes who had failed monotherapy and were initiating dual oral agent therapy. Duration of follow-up exceeded 3 years in each trial. In each of these trials, there was a statistically non-significant increase in the risk of myocardial information for provide the trial triang the trial of the triang the trial of the triang the trial of the triangle trian on routine ophthalmologic examination. Most patients had peripheral

monotherapy in drug-naïve patients recently diagnosed with type 2 diabetes mellitus, an increased incidence of bone fracture was noted **6.2** Laboratory Abnormalities

 S.10
 Diabetes and Blood Glucose Control

 Patients
 receiving rosiglitazone maleate in combination with other hypoglycemic agents may be at risk for hypoglycemia, and a reduction in

the dose of the concomitant agent may be necessary. Periodic fasting blood glucose and HbA1c measurements should be

performed to monitor therapeutic response. Ovulation

Preferred

respiratory

tract infecti

Injury

Back pain

maleate

Term

Therapy with rosiglitazone maleate, like other thiazolidinediones, may

Although hormonal imbalance has been seen in preclinical studies [see Nonclinical Toxicology (13.1)], the clinical significance of this finding is not known. If unexpected mentrual dysfunction occurs, the benefits of continued therapy with rosiglitazone maleate should be reviewed.

ADVERSE REACTIONS

 G.1
 Clinical Trial Experience

 Adult:
 In clinical trials, approximately 9,900 patients with type 2 diabetes

Combination With Other Hypoglycemic Agents: The incidence and types of adverse events reported in short-term clinical trials of rosiglitazone maleate as monotherapy are shown in Table 6.

Table 6. Adverse Events (\geq 5% in Any Treatment Group) Reported by Patients in Short-Term^a Double-Blind Clinical Trials With Rosiglitazone Maleate as Monotherapy

| siglitazone Maleate onotherapy | Placebo | Metformin | Sulfonylureasb |
|--------------------------------------|------------|-----------|----------------|
| V = 2,526 | N = 601 | N = 225 | N = 626 |
| % | % | % | % |
| 9.9 | 8.7 | 8.9 | 7.3 |
| 7.6 | 4.3 | 7.6 | 6.1 |
| 5.9 | 5.0 | 8.9 | 5.4 |
| 4.0 | 3.8 | 4.0 | 5.0 |
| 3.9 | 5.7 | 4.4 | 8.1 |
| 3.6 | 5.0 | 4.0 | 1.9 |
| 3.2 | 4.5 | 5.3 | 3.0 |
| 2.3 | 3.3 | 15.6 | 3.0 |
| 0.6 | 0.2 | 1.3 | 5.9 |
| ranged from | 8 weeks to | 1 vear | |

a Short-term trials b Includes patients receiving glyburide (N = 514), gliclazide (N = 91), or

glipizide (N = 21). verall, the types of adverse reactions without regard to causality reported when rosiglitazone maleate was used in combination with a sulfonylurea or metformin were similar to those during monotherapy with rosiglitazone

higher doses, and were generally mild to moderate in severity and usually did not require discontinuation of treatment with rosiglitazone maleate.

In double-blind trials, anemia was reported in 1.9% of patients receiving rosiglitazione maleate as monotherapy compared to 0.7% or placebo 0.6% on sulfonylureas, and 2.2% on metformin. Reports of anemia were greater in patients treated with a combination of rosiglitazone maleate and netformin (7.1%) and with a combination of rosiglitazone maleate and

nitiation of rosiglitazone maleate tablets in patients with established VYHA Class III or IV heart failure is contraindicated. Rosiglitazone maleate tyreated with symptomatic heart failure see Boxed Warning]. Patients experiencing acute coronary syndromes have not been studied in Patients experiencing acute coronary syndromes have not been studied in Patients experiencing acute coronary syndromes have not been studied in set as a coronary syndromes have not been studied in trials without regard to causality; rates are expressed per 100 patient-years (PY) exposure to account for the differences in exposure to trial medication across the 3 treatment groups.

evels (ALT > 2.5X upper limit of normal). Patients with mildly elevated liver In ADOPT. fractures were reported in a greater number of women treated with (3.5%, 1.3/100 patient-years) or metformin (5.1%, 1.5/100 patient-years) compared to (3.5%, 1.3/100 patient-years) or metformin (5.1%, 1.5/100 patient-years) or metformin (5.1\%, 1.5/100 patient-yea ith rosiglitazone maleate in patients with mild liver enzyme elevations reported in the upper arm, hand, and foot [see Warnings and Precautions nould proceed with caution and include close clinical follow-up, including (5.8)]. The observed incidence of fractures for male patients was similar

To vorsen. If at any time ALT levels increase to > 3X the upper limit of normal 1 patients on therapy with rosigilitazone maleate, liver enzyme levels should reached of a nearby a nearby of the statement of Maleate as Monotherapy (ADOPT

| | laleate as monotherapy (ADOFT) | | | | | | | |
|---------------------------------------|--------------------------------|--|-------------------|--|--|--|--|--|
| | Rosiglitazone Maleate | Glyburide | Metformin | | | | | |
| | N = 1,456 | N = 1,441 | N = 1,454 | | | | | |
| | PY = 4,954 | PY = 4,244 | PY = 4,906 | | | | | |
| lasopharyngitis | 6.3 | 6.9 | 6.6 | | | | | |
| Back pain | 5.1 | 4.9 | 5.3 | | | | | |
| Arthralgia | 5.0 | 4.8 | 4.2 | | | | | |
| lypertension | 4.4 | 6.0 | 6.1 | | | | | |
| Ipper espiratory tract nfection | 4.3 | 5.0 | 4.7 | | | | | |
| lypoglycemia | 2.9 | 13.0 | 3.4 | | | | | |
|)iarrhea | 2.5 | 3.2 | 6.8 | | | | | |
| ctive-controlled tr | ial of pediatric pati | been evaluated for ents with type 2 dia | abetes in which 9 | | | | | |

, mere was a statistically non-significant increase Association. Additionally, any diabetic who reports any kind of visual were treated with rosiglitazone maleate and 101 were treated with metformir rdial infarction for rosiglitazone maleate versus symptom should be promptly referred to an ophthalmologist, regardless. The most common adverse reactions (> 10%) without regard to causality for plogist, regardless The most common adverse reactions (> 10%) without regard to causality for either rosiglitazone maleate or metformin were headache (17% versus 14%) nausea (4% versus 11%), nasopharyngitis (3% versus 12%), and diarrh (1% versus 13%). In this trial, one case of diabetic ketoacidosis was reporte in the metformin group. In addition, there were 3 patients in the rosiglitazone group who had FPG of ~300 mg/dL, 2+ ketonuria, and an elevated anion gap.

period, the incidence of bone fracture in females was 9.3% (60/645) in a dose-related fashion in adult patients treated with rosiglitazone maleate. (30/590) for metformin. This increased incidence was noted after the first year of treatment and persisted during the course of the trial. The majority of the fractures in the women who received rosiglitazone maleate occurred following a dose increase in rosiglitazone maleate. The time course and in the upper arm, hand, and foot. These sites of fracture are different from magnitude of decreases were similar in patients treated with a combinatio these usually associated with postmenopausal osceporosis (e.g., hip or spine). Other trials suggest that this risk may also apply to men, although the risk of fracture among women appears higher than that among men. The risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients the rest of an emain the risk of fracture should be considered in the care of patients the rest of an emain the risk of fracture should be considered in the care of patients the rest of an emain the risk of th There have been no adequately designed clinical trials directly comparing rosiglitazone maleate to ACTOS (pioglitazone) on cardiovascular isks. However, in a long-term, randomized, placebo-controlled cardiovascular isks. with type 2 diabetes mellitus and prior macrovascular disease, ACTOS (pioglitazone) was not associated with an increased risk of myocardial infarction or total mortality.⁹ The risk of macture should be considered in the care of patients treated with rosiglitazone maleate, and attention given to assessing and maintain bone health according to current standards of care. **5.9 Hematologic Effects** Decreases in neme hemoglobin and hematocrit occurred in a dose-related fashion in adult patients treated with rosiglitazone maleate. *See Adverse Reactions (6.2)*. The observed changes may be related to the increased naket. Decreases in hemotologic parameters may be related to increased naket. Decreases in hemotologic parameters may be related to increased naket. Decreases in hemotologic parameters may be related to increased naket. Decreases in hemotologic parameters may be related to the significazone maleate. Decreases in hemotologic parameters may be related to increased naket. Decreases in hemotologic parameters may be related to naket. Decreases in hemotologic parameters may be related. plasma volume observed with treatment with rosiglitazone maleate.

Lipids: Changes in serum lipids have been observed following treatment vith rosiglitazone maleate in adults [see Clinical Pharmacology (12.2)] Small changes in serum lipid parameters were reported in children treate with rosiglitazone maleate for 24 weeks

Serum Transaminase Levels: In pre-approval clinical trials in 4.598 natients maleate (3.600 patient-years of expo in a long-term 4 to 6 year trial in 1,456 patients treated with rosigilitazone maleate (4,954 patient-years exposure), there was no evidence of drug-induced hepatotoxicity.

In pre-approval controlled trials, 0.2% of patients treated with rosiglitazor maleate had elevations in ALT > 3X the upper limit of normal compared to 0.2% on placebo and 0.5% on active comparators. The ALT elevations in patients treated with rosiglitazone maleate were reversibl Hyperbilirubinemia was found in 0.3% of patients treated with rosiglitazone maleate compared with 0.9% treated with placebo and 1% in patients treated with active comparators. In pre-approval clinical trials, there were no cases distinct and the state of the sta of idiosyncratic drug reactions leading to hepatic failure [see Warnings and Precautions (5.6)].

In the 4 to 6 year ADOPT trial, patients treated with rosiglitazone maleate (4,954 patient-years exposure), glyburide (4,244 patient-years exposure), or etformin (4.906 patient-years exposure), as monotherapy, had the same rate of ALT increase to > 3X upper limit of normal (0.3 per 100 patient-years exposure).

In addition to adverse reactions reported from clinical trials, the events described below have been identified during post-approval use of rosiglitazone maleate. Because these events are reported voluntarily from a population of unknown size, it is not possible to reliably estimate their frequency or to always establish a causal relationship to drug exposure In patients receiving thiazolidinedione therapy, serious adverse events with or without a fatal outcome, potentially related to volume expansion (e.g., congestive heart failure, pulmonary edema, and pleural effusions) have been reported [see Boxed Warning and Warnings and Precautions (5.1)].

There are postmarketing reports with rosiglitazone maleate of hep hepatic enzyme elevations to 3 or more times the upper limit of normal, and hepatic failure with and without fatal outcome, although causality has not been established.

There are postmarketing reports with rosiglitazone maleate of rash, pruritus, urticaria, angioedema, anaphylactic reaction, Stevens-Johnson syndrome, and new onset or worsening diabetic macular edema with decreased visual acuity [see Warnings and Precautions (5.7)].

DRUG INTERACTIONS

7.1 CVP2C8 Inhibitors and Inducers An inhibitor of CVP2C8 (e.g., gemfbrozil) may increase the AUC of rosiglitazone and an inducer of CVP2C8 (e.g., rifampin) may decrease the AUC of rosiglitazone. Therefore, if an inhibitor or an inducer of CVP2C8 is started or stopped during treatment with rosiglitazone, changes in diabetes ment may be needed based upon clinical response [see Clinical

USE IN SPECIFIC POPULATIONS

Pregnancy Teratogenic Effects

Pregnancy category C

I pregnancies have a background risk of birth defects, loss, or other adverse outcome regardless of drug exposure. This background risk adverse outcome regardless of drug exposure. This background risk decreased in pregnancies complicated by hyperglycemia and may be decreased with good metabolic control. It is essential for patients with diabetes or history of gestational diabetes to maintain good metabolic control before conception and throughout pregnancy. Careful monitoring of glucose control is essential in such patients. Most experts recommend that insulin monotherapy be used during pregnancy to maintain blood glucose levels as close to normal as possible.

Human Data: Rosiglitazone has been reported to cross the human placenta and because the advectable in fetal tissue. The clinical significance of these findings pre-treatment hemoglobin/hematocrit levels in patients enrolled in the metformin combination clinical trials may have contributed to the higher reporting rate of anemia in these trials [see Adverse Reactions (6.2)]. Human Data: Rosiglitazone has been reported to cross the human placenta

In clinical trials, edema was reported in 4.8% of patients receiving rosiglitazone treatment during early pregnancy in rats, but treatment during maleate as monotherapy compared to 1.3% on placebo, 1.0% on sulforylureas, and 2.2% on metformin. The reporting rate of edema was higher for an effort in the rest and rabbits. Teratogenicity was not observed at doses up to an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of edema was higher for an effort in the reporting rate of the rate of the reporting rate of the rate o and 2.2% on metrornin. The reporting rate of edema was higher for rosiglitazone 8 mg in sulfonylurea combinations (12.4%) compared to other combinations, with the exception of insulin. Edema was reported in 14.7% of patients receiving rosiglitazone maleate in the insulin combination trials receiving rosiglitazone maleate in the insulin combination trials in combinations (5.1). The use of rosiglitazone maleate in combinations (2.1) the use of rosiglitazone maleate in combinations (2.1) the use of rosiglitazone maleate in combinations (2.1). The use of rosiglitazone maleate in combinations (2.2). In the use of rosiglitazone maleate in combination with rosiglitazone maleate (2.2) and 2% (4.000) and 3% (8.000) for insulin in combinations (5.2). The use of rosiglitazone maleate in combination with rosiglitazone maleate (2.2000) for maximum recommended human functions and the recautions (5.2). The use of rosiglitazone maleate in combination with rosiglitazone maleate in combination with rosiglitazone maleate in combination therawy trials with sufforvioures mild to a parking and Precautions (5.2). Is ee Warnings and Precautions (5.2)]. In controlled combination therapy trials with sulfonylureas, mild to moderate hypoglycemic symptoms, which appear to be dose related, were reported. Few patients were withdrawn for hypoglycemia (< 1%) and few episodes of hypoglycemia were considered to be severe (< 1%). Hypoglycemia was the most frequently reported adverse event in the fixed-dose insulin combination trials, although few patients withdrew for

Rosiglitazone Maleate Tablets

your medical condition or your treatment. If make more insulin. you have any questions about rosiglitazone Rosiglitazone maleate tablets are not for maleate tablets, ask your doctor or pharmacist. people with type 1 diabetes mellitus or to What is the most important information I treat a condition called diabetic ketoacidosis.

tablets? Rosiglitazone maleate tablets is available under 18 years old. 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.

serious side effects, including: New or worse heart failure

- Rosiglitazone maleate tablets can cause you in particular.
- and weight gain. Extra body fluid can make conditions, including if you: some heart problems worse or lead to • have heart problems or heart failure. heart failure. Heart failure means your • have type 1 ("juvenile") diabetes or had 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

Mvocardial 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 are breast-feeding or planning to breastuncomfortable 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

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 vour 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 medicine. They will tell you if it is alright to 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 • Take rosiglitazone maleate tablets exactly 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 Read this Medication Guide carefully before tablets may be used alone or with other you start taking rosiglitazone maleate tablets diabetes medicines. Rosiglitazone maleate and each time you get a refill. There may be tablets can help your body respond better new information. This information does not to insulin made in your body. Rosiglitazone take the place of talking with your doctor about maleate tablets do not cause your body to

should know about rosiglitazone maleate It is not known if rosiglitazone maleate tablets are safe and effective in children

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, Rosiglitazone maleate tablets may cause ask your doctor about what the choices are for diabetes medicines, and what the expected benefits and possible risks are for

your body to keep extra fluid (fluid Before taking rosiglitazone maleate tablets, retention), which leads to swelling (edema) tell your doctor about all your medical

- 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 vour doctor right away if you become pregnant while taking rosiglitazone maleate tablets.
- 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 Call your doctor or go to the nearest 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 take rosiglitazone maleate tablets with other medicines.

How should I take rosiglitazone maleate tablets?

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 **Ovulation** (release of egg from an ovary in χ 8.3 Nursing Mothers 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 The most common side effects of full effect on your blood sugar level.
- If you miss a dose of rosiglitazone maleate and headache. tablets, take it as soon as you remember. Call your doctor for medical advice about Take your next dose at the usual time. Do FDA at 1-800-FDA-1088. not take double doses to make up for a How should I store rosiglitazone maleate missed dose.
- 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 weight, and get regular exercise while taking rosiglitazone maleate tablets.
- Your doctor should do blood tests to check maleate tablets your liver before you start rosiglitazone maleate tablets.

rosiglitazone maleate tablets? Rosiglitazone maleate tablets may cause This Medication Guide summarizes important serious side effects including:

- New or worse heart failure. See "What is the most important information I tablets?"
- about rosiglitazone maleate tablets?". 1-888-838-2872, MEDICAL AFFAIRS.
- Swelling (edema). Rosiglitazone maleate What are the ingredients in rosiglitazone tablets can cause swelling due to fluid retention. See "What is the most important information I should know about rosiglitazone maleate tablets?".
- be due to fluid retention or extra body fat. about rosiglitazone maleate tablets?".
- Liver problems. It is important for your Always check to make sure that the doctor should do blood tests to check your standard-convex and look like this: liver before you start taking rosiglitazone maleate tablets and during treatment as "72202" on the other 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 eve 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

prescribed alone or with other diabetes 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?".

sugar. It may take 2 to 3 months to see the rosiglitazone maleate tablets reported in clinical trials included cold-like symptoms

unless it is time to take your next dose. side effects. You may report side effects to

tablets?

- If you take too many rosiglitazone maleate 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
- stay on your recommended diet, lose extra Keep rosiglitazone maleate tablets and all medicines out of the reach of children.

General information about rosiglitazone

Medicines are sometimes prescribed maleate tablets and during treatment as for purposes other than those listed in a needed. Your doctor should also do regular Medication Guide. Do not use rosiglitazone blood sugar tests (for example, "A1C") to maleate tablets for a condition for which monitor your response to rosiglitazone they were not prescribed. Do not give rosiglitazone maleate tablets to other people, What are possible side effects of even if they have the same symptoms you have. They may harm them.

information about rosiglitazone maleate tablets. If you would like more information, talk with your doctor. You can ask your should know about rosiglitazone maleate doctor or pharmacist for information about rosiglitazone maleate tablets that is written for healthcare professionals. You can also • Heart attack. See "What is the most find out more about rosiglitazone maleate important information I should know tablets by calling Teva Pharmaceuticals at

maleate tablets?

Active Ingredient: rosiglitazone maleate

Inactive Ingredients: croscarmellose sodium, hypromellose (2910, 6cP), iron oxide red, • Weight gain. Rosiglitazone maleate lactose monohydrate, magnesium stearate, tablets can cause weight gain that may microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and Weight gain can be a serious problem for triacetin. In addition, the 2 mg tablet contains people with certain conditions including FD&C blue #2 (indigo carmine aluminum heart problems. See "What is the most lake), the 4 mg tablet contains iron oxide important information I should know black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

liver to be working normally when you medicine you are taking is the correct one. take rosiglitazone maleate tablets. Your Rosiglitazone maleate tablets are round 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.

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Manufactured In Israel By TEVA PHARMACEUTICAL IND. LTD. Jerusalem, 91010, Israel Manufactured For: **TEVA PHARMACEUTICALS USA**

Sellersville, PA 18960 lss. 11/2011

8.4 Pediatric Use
 After placebo run-in including diet counseling, children with type 2 diabetes
 After placebo run-in including diet counseling, children with type 2 diabetes
 add/or impaired glucose tolerance.
 2 diabetes and/or impaired glucose tolerance.
 2 Pharmacodynamics
 2 Pharmacodynamics
 2 Patients with lipid abnormalities were not excluded from clinical trial.
 2 A week, double-blind clinical trial. As expected, FPG decreased in patients raive to diabetes medication (n = 104) and increased in patients with increases in total cholesterol, LDL, and HDL and decreases in the receiving rosigilitazone maleate. In a real function. No dosage adjustment is therefore required impairment, coadministration of trop glyburide controls (Table 9).
 with rosinglitazone maleate and 55% of treatment, 49% of patients treated adjust had their
 10 market and 12 market and 13 market and 1

Table 8. Week 24 FPG and HbA1c Change From Baseline Last-

| observation oan | | |
|-----------------|----------------|-----------------------------|
| | Naïve Patients | Previously-Treated Patients |

| | Naïve | Patients | Previously-Treated Patient | |
|---|-----------|---------------|----------------------------|---------------|
| | 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) ^b | | 8 | | 21 |
| (95% CI) | | (-15, 30) | | (-9, 51) |
| % 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) ^b | | 0.2 | | 0.5 |
| (95% CI) | | (-0.6, 0.9) | | (-0.2, 1.3) |
| % 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 gain 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 \geq 2 kg, and 33% of patients treated with rosiglitazone and 7% of patients treated with metformin gained \geq 5 kg on trial. Adverse events observed in this trial are described in Adverse Reactions (6.1).

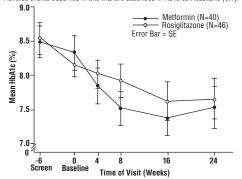


Figure 2. Mean HbA1c Over Time in a 24 Week Trial of Rosiglitazone Maleate and Metformin in Pediatric Patients — Drug-Naïve Subgroup Geriatric Use 8.5

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 (\geq 65 years) and younger (< 65 years) patients were observed.

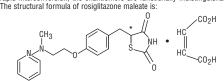
OVERDOSAGE Limited data are available with regard to overdosage in humans. In clinical trials in volunteers, rosiglitazone maleate has been administered at single oral doses of up to 20 mg and was well-tolerated. In the event of an tive treatment should be initiated as dictated / the patient's clinical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

DESCRIPTION

Bosiglitazone 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-[[4-[2-(methyl-2-pyridinylamino) ethoxy] phenyl]methyl]-2,4-thiazolidinedione, (Z)-2-butenedioate (1:1 The molecule has a single chiral center and is present as a racemate. Due to on, the enantiomers are functionally indis



n 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, service and potent agoins for the peroxisine promerator-activated receptor-gamma (PPARy). In humans, PPAR receptors are found in key target tissues for insulin action such as adipose tissue, skeletal muscle, and liver. Activation of PPARy nuclear receptors regulates the transcription of insulin-responsive genes involved in the control of glucose production, transport, and utilization. In addition, PPARy-responsive genes also participate in the regulation of fatty acid metabolism.

demonstrated in animal models of type 2 diabetes in which hyperplycemia and/or impaired glucose tolerance is a consequence of insulin resistance in target tissues. Rosigilitazone reduces blood glucose concentrations and reduces hyperinsulinemia in the ob/ob obese mouse, db/db diabetic mouse, and fa/fa fatty Zucker rat.

 Base of the state of the s

or alvburide controls

| ntrolled and 52 Week Glyburide-Controlled Monotherapy Trials | | | | | | | | |
|--|----------|----------------------|----------------------------|---|-------|-----------------------|--------|--|
| | Placebo- | Controlle Week 26 | ed Trials | Glyburide-Controlled Trial Week 26 and Week 52 | | | | |
| | Placebo | Rosigl | itazone | Glybi Titra | | Rosiglitazone 8 mg | | |
| | | 4 mg dailya | 8 mg daily ^a | Wk 26 | Wk 52 | Wk 26 | Wk 52 | |
| ee fatty ids | | | | | | | | |
| | 207 | 428 | 436 | 181 | 168 | 166 | 145 | |
| iseline iean) | 18.1 | 17.5 | 17.9 | 26.4 | 26.4 | 26.9 | 26.6 | |
| Change om Iseline Tean) | +0.2% | -7.8% | -14.7% | -2.4% | -4.7% | -20.8% | -21.5% | |
|)L | | | | | | | | |
| | 190 | 400 | 374 | 175 | 160 | 161 | 133 | |
| iseline iean) | 123.7 | 126.8 | 125.3 | 142.7 | 141.9 | 142.1 | 142.1 | |
| Change om iseline nean) | +4.8% | +14.1% | +18.6% | -0.9% | -0.5% | +11.9% | +12.1% | |
| DL | | | | | | | | |
| | 208 | 429 | 436 | 184 | 170 | 170 | 145 | |
| iseline nean) | 44.1 | 44.4 | 43.0 | 47.2 | 47.7 | 48.4 | 48.3 | |
| Change | | | | | | | | |

rom baseline +8.0% +11.4% +14.2% +4.3% +8.7% +14.0% +18.5% a Once daily and twice daily dosing groups were cor

12.3 Pharmacokinetics Maximum plasma concentration (Cmax) 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 dent of dose

fable 10. Mean (SD) Pharm okinetic Parameters for Rosiglitazone Following Single Oral Doses (N = 32) 2 mg Fasting 8 mg 8 mg Fed 1 mg Fasting Fasting 2,971 358 (112) 2 890 [ng•hr/mL] (184) (730) (795) (13) (42) (117)(92)(0.72)(0.39)(0.63) (0.70) 3.03 2.89 2.85 2 97 (0.87) (0.71) (0.81) (0.69) a CI /F = Oral c

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 (Vss/F) of Impairment of Fertility: Rosigilitazone had no effects on mating or fertility <u>Distribution:</u> The mean (CV%) oral volume of distribution (Vss/F) of male rats given up to 40 mg/kg/day (approximately 17.6 (30%) liters, based on a population pharmacokinetic analysis. Rosigilitazone is approximately 99.8% bound to plasma proteins. primarily albumin. plasma proteins, primarily albumin.

plasma proteins, primarily albumin. **Metabolism**: Rosiglitazone is extensively metabolized with no unchanged drug excreted in the urine. The major routes of metabolism were and glucuronic acid. All the circulating metabolites are considerably less potent than parent and, therefore, are not expected to contribute to the insulin-sensitizing activity of rosiglitazone. 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 faces, respectively. The plasma half-life of [¹⁴C]related material ranged from 103 to 158 hours.

Population Pharmacokinetics in Patients With Type 2 Diabetes: Population pharmacokinetic analyses from 3 large clinical trials including 642 men and 405 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 (Vss/F) were shown to increase seen in adults. Morphometric measurement indicated unat unere was with increases in body weight. Over the weight range observed in these analyses (50 to 150 kg), the range of predicted CL/F and Vss/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 (obsert 15%) in female natients. **CLINICAL STUDIES Monotherapy**

13.2

In monotherapy trials, a greater therapeutic response was observed in 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 the more obese patients, gender differences were less evident. For a given body mass index (BMI), females tend to have a greater patient of the more observed in the more observed in antidiabetic medication(s) were withdrawn and patients entered a 2 to 4 week placebo run-in period prior to randomization. 12.1 Mechanism of Action evident. For a given body mass index (BMI), temales tend to have a greater improves glycemic control by improving insulin sensitivity. Rosiglitazone is a highly selective and potent agoinst for the peroxisome proliferator-activated receptor gamma (PPARy). In humans, PPAR reports are found in key target tissues skeletal muscle and liver. Activation of the dividualized, no dose adjustments are necessary tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the dividualized in the control det trained added to the therapy of patients who were inadequately tor insulin action such as adinose tissue skeletal muscle and liver. Activation of therapy should be individualized, no dose adjustments are necessary tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the trained adding tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the trained adding tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the trained of the activation of the trained of the tra

Hepatic Impairment: Unbound oral clearance of rosigilitazone was significantly lower in patients with moderate to severe liver disease (Child-Pugh Class B/C) one of these trials are summarized in Table 11. $PPAR_{\gamma}$ -responsive genes also participate in the regulation of fatty acid metabolism. The solution is a common feature characterizing the pathogenesis of type 2 diabetes. The antidiabetic activity of rosiglitazone has been on the solution of the solu

with rosiglitazone maleate and 55% of metformin-treated patients had their Increases in LDL occurred primarily during the first 1 to 2 months of therapy metformin with rosiglitazone maleate is contraindicated in these patients. 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 HbAtc 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 naive to therapy with antidiabetic drugs and for patients previously treated with antidiabetic therapy (**Table 8**). were 3.1, 3.2, and 3.0, respectively, for rosiglitazone 4 mg twice daily. The differences in concentrations. In vitro data demonstrate that the provided experiment to the major of the maj hange from baseline between rosiglitazone maleate and glyburide at week 52 vere 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.

Table 9. Summary of Mean Lipid Changes in 26 Week Placebo-

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 2 diabetes. Patients were randomized to treatment with rosiglitazone 2 mg glyburide (3.75 to 10 mg/day) for 7 days did not alter the mean steady-and glyburide therapy. Repeat doses of rosiglitazone (8 mg once daily) for twice daily (N = 195) or rosiglitazone 4 mg twice daily (N = 189) or glyburide

8 days in healthy adult Caucasian subjects caused a decrease in glyburide AUC and G_{max} of approximately 30%. In Japanese subjects, glyburide AUC and G_{max} slightly increased following coadministration of rosigiltazone maleate. **Glimepiride:** Single oral doses of glimepiride in 14 healthy adult subjects Glimepiride: Single oral doses of alimepiride in 14 healthy adult subjects inically significant effect on the steady-state pharmacokinetic cone maleate. No clinically significant reductions in glimepi

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 dosing of rosiglitazone (8 mg once daily) for 14 days did not alter the steady-state pharmacokinetics of digoxin (0.375 mg once daily) 220 -

in healthy volunteers. <u>Warfarin:</u> 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 ਵੇ 180crease the risk of acute hypoglycemia in type 2 diabetes mellitus patients reated with rosiglitazone maleate. Ύ. Ranitidine: Pretreatment with ranitidine (150 mg twice daily for 4 days) lid not alter the pharmacokinetics of either single oral or intravenous rosigilitzone in healthy volunteers. These results suggest that the on of oral rosigilitzone is not altered in conditions accompanied ases in gastrointestinal pH. <u>\$</u>-<u>0</u>--<u>0</u>--<u>0</u>-140reases in gastr

NONCLINICAL TOXICOLOGY

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 Figure 3. Mean FPG Over Time in a 52 Week Glyburide-Controlled Tria uman daily dose for male and female rats, respectively). siglitazone was not carcinogenic in the mouse. There was an increas in incidence of adipose hyperplasia in the mouse at doses $\geq 1.5 \text{ mg/kg/day}$ approximately 2 times human AUC at the maximum recommended huma daily dose). In rats, there was a significant increase in the incidence of benigr these proliferative changes in both species are considered due to the exercise the proliferative changes in both species are considered due to the proliferative changes in both species are considered due to the construct the maximum recommended human daily dose). persistent pharmacological overstimulation of adipose tissue.

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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 or the pharmacokinetics of nifedinine and oral contracentives (ethinyl estradiol and nindrone), which are predominantly metabolized by CYP3A4.

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 adverse events with rosiglitazone, a decrease in the dose of rosiglitazone

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 micronucleu

male reproductive performance, or on estrous cyclicity, mating performance

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

osiglitazone maleate produced statistically significant improvements in

FPG (mg/dL) -43a -10a lifference from % of patients 45% 54% 58% HbA1c (%) 8.9 8.9 8.9 Baseline (mear hange from eline (mear -0 9a acebo (adjust

% of patient with $\geq 0.7\%$ 39% 54% lecrease from

a P < 0.0001 compared to placeb

may be needed when gemfibrozil is introduced [see Drug Interactions (7.1)]. When administered at the same total daily dose, rosiglitazone maleate was Rifampin: Rifampin administration (600 mg once a day), an inducer of generally more referitive in reducing FPG and HbAtc when administered CYP2C8, for 6 days is reported to decrease rosiglitazone AUC by 66%, in divided doses twice daily compared to once daily doses. However, for nistration of rosiglitazone (8 mg) alone [see Drug HbA1c, the difference between the 4 mg once daily and 2 mg twice daily doses was not statistically significant.

dose was kept constant.

The median titrated dose of glyburide was 7.5 mg. All treatments resulted AUC and C_{max} were observed after repeat doses of rosiglitazone (8 mg once daily) for 8 days in healthy adult subjects. <u>Metformin:</u> 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 rosiglitazone. <u>Acarbose:</u> Coadministration of acarbose (100 mg three times daily) daily at week 26 was maintained through week 52 of the trial.

- O- - - Glyburide

26

- O- - - Glvburide

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02468 12 16

0.0

- - - Rosiglitazone 2 mg twice daily

──▼── *Rosiglitazone* 4 mg twice daily

38

- - Rosialitazone 2 ma twice daily

Rosiglitazone 4 mg twice daily

(Frror Bars = SF

(Error Bars = SE)

Figure 4. Mean HbA1c Over Time in a 52 Week Glvburide-Controlled Trial lypoplycemia was reported in 12.1% of plyburide-treated patients versus hypothetic and a reported in 12-176 of gybornee reactor patients versus 0.5% (2 mg twice daily) and 1.6% (4 mg twice daily) of patients treated with rosiglitazone. The improvements in glycemic control were associated with a mean weight gain of 1.75 kg and 2.95 kg for patients treated with 2 mg and 4 mg twice daily of rosiglitazone, respectively, versus 1.9 kg in glyburide-treated patients. In

Animal Toxicology and/or Pharmacology

patients treated with rosiglitazone maleate, C-peptide, insulin, pro-insulin, and pro-insulin split products were significantly reduced in a dose-ordered fashion, compared to an increase in the glyburide-treated patients. or pregnancy incidence in females (approximately 68 times human AUC at A Diabetes Outcome Progression Trial (ADOPT) was a multicenter, double (0.6 and 4.6 mg/kg/day; approximately 3 and 15 times human AUC at the maximum recommended human daily dose). In monkeys, rossiglitazone maximum recommended human daily dose, respectively diminished the follicular phase rise in serum estradiol with consequential reduction in the follower at a formation of the safety and efficacy of rosiglitazone maleate, metformin, and glyburde (≤ 3 years) inadequately controlled with diet and exercise. The mean age of

Treatment Week

luteinizing hormone surge, lower luteal phase progesterone levels, and amenorrhea. The mechanism for these effects appears to be direct inhibition no known history of cardiovascular disease. The mean baseline FPG and no known history of cardiovascular disease. The mean baseline FPG and HbAtc were 152 mg/dL and 7.4%, respectively. Patients were randomized to receive either rosiglitazone 4 mg once daily, glyburide 2.5 mg once daily, or metformin 500 mg once daily, and doses were titrated to optimal plycemic control up to a maximum of 4 mg twice daily for rosiglitazone 5 mg twice daily for glyburide, and 1 000 mg twice daily for metformi 22, and 2 times human AUC at the maximum recommended human daily dose, respectively). Effects in juvenile rats were consistent with those seen in adults. Morphometric measurement indicated that there was hypertrophy in cardiac ventricular tissues, which may be due to increased

siglitazone maleate as monotherapy in 6 double-blind trials, which included o 26 week placebo-controlled trials, one 52 week glyburide-controlled trial, o 26 week placebo-controlled trials, one 52 week glyburide-controlled trial, o 26 week placebo-controlled dose-ranging trials of 8 to 12 weeks duration. Previous therapy.

metformin. Rosigitazone maleate, administered in either once dally or twice dally dosing regimens, was added to the therapy of patients who were inadequately controlled on a maximum dose (2.5 grams/day) of metformin. In one trial, patients inadequately controlled on 2.5 grams/day of

daily and 8 mg of rosiglitazone once daily, versus patients continued on metformin alone (Table 12).

| | Metformin | Rosiglitazone 4 mg once daily + metformin | Rosiglitazone 8 mg once daily + metformin |
|--|-----------|---|---|
| | N = 113 | N = 116 | N = 110 |
| FPG (mg/dL) | | | |
| Baseline (mean) | 214 | 215 | 220 |
| Change from baseline (mean) | 6 | -33 | -48 |
| Difference from metformin alone (adjusted mean) | - | -40a | -53a |
| % of patients with ≥ 30 mg/dL decrease from baseline | 20% | 45% | 61% |
| HbA1c (%) | | | |
| Baseline (mean) | 8.6 | 8.9 | 8.9 |
| Change from baseline (mean) | 0.5 | -0.6 | -0.8 |
| Difference from metformin alone (adjusted mean) | - | -1.0 ^a | -1.2ª |
| % of patients with ≥ 0.7% decrease from baseline | 11% | 45% | 52% |

a P < 0.0001 compared to metformin

In a second 26 week trial, patients with type 2 diabetes inadequately controlled on 2.5 grams/day of metformin who were randomized to receive the combination of rosiglitazone 4 mg twice daily and metformin (N = 105) showed a statistically significant improvement in glycemic control with a 15 mean treatment effect for FPG of -56 mg/dL and a mean treatment effect 1 for HbA1c of -0.8% over metformin alone. The combination of metformin and rosiglitazone maleate resulted in lower levels of FPG and HbA1c than either agent alone.

Patients who were inadequately controlled on a maximum dose (2.5 grams/day) of metformin and who were switched to monotherapy with siglitazone maleate demonstrated loss of glycemic control, as evidenced by increases in FPG and HbA1c. In this group, increases in LDL and VLDI were also see

mum dosage of Combination With a Sulfonylurea: 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 maleate in combination with a sulfonylurea

with rosiolitazone maleate: however, this effect was less durable over time. sulfonvlurea or further up-titration of the sulfonvlurea. Table 13 shows The improvement in glycemic control seen with rosiglitazone 4 mg twice pooled data for 8 trials in which rosiglitazone maleate added to sulfonylure was compared to placebo plus sulfonvlurea

Table 13. Glycemic Parameters in 24 to 26 Week Combination Trials of

| Twice Daily Divided Dosing (5 Studies) | Sulfonylurea | Rosiglitazone 2 mg twice daily + sulfonylurea | Sulfonylurea | Rosiglitazone 4 mg twice daily + sulfonylurea |
|---|--------------|--|--------------|--|
| | N = 397 | N = 497 | N = 248 | N = 346 |
| FPG (mg/dL) | | | | |
| Baseline (mean) | 204 | 198 | 188 | 187 |
| Change from baseline (mean) | 11 | -29 | 8 | -43 |
| Difference from sulfonylurea alone (adjusted mean) | - | -42a | - | -53a |
| % 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) | - | -1.1a | - | -1.4a |
| % 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 | N = 172 | N = 173 | N = 176 |
| FPG (mg/dL) | | | | |
| Baseline (mean) | 198 | 206 | 188 | 192 |
| Change from baseline (mean) | 17 | -25 | 17 | -43 |
| Difference from sulfonylurea alone (adjusted mean) | - | -47a | - | -66 ^a |
| % of patients with ≥ 30 mg/dL decrease from baseline | 17% | 48% | 19% | 55% |
| HbA1c (%) | | | | |
| Baseline (mean) | 8.6 | 8.8 | 8.9 | 8.9 |
| Change from baseline (mean) | 0.4 | -0.5 | 0.1 | -1.2 |
| Difference from sulfonylurea alone (adjusted mean) | - | -0.9a | - | -1.4 ^a |
| % of patients with ≥ 0.7% decrease from | 11% | 36% | 20% | 68% |

C1H1 VM2058-C4H404 M.V.473.52 (357.44 free basis) C1 H1 VM2058-C4H404 M.V.473.52 (357.44 free basis) F1 C11 VM2018 C12.53 (1-2116) - 65 years) showed ht rade patients. F1 M Montherapy F1 M Montherapy F1 1 Montherapy F1 1 Montherapy F1 1 Freadily soluble in ethanol and a buffered aqueous solution with red patients of the sonution of the physicological material microscolegical methanol and a buffered aqueous solution with red patients of the sonution of the physicological methanol and a buffered aqueous solution with red patients of the sonution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red freed that age does in the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with methanol and a buffered aqueous solution with red patients of the solution of the physicological methanol and a buffered aqueous solution with methanol and a buffered aqueous solut and 7.65%, respectively, for the glipzide up-titration arm. Loss of glycemic control (FPG \geq 180 mg/dL) occurred in a significantly lower proportion of patients (2%) on rossiglitazone maleate plus glipzide compared to patients in the glipzide 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 <u>Combination With Metformin:</u> A total of 670 patients with type 2 diabetes on FPG and HbA1c was durable over the 2 year trial period, with patient compared to no change on the glipizide arm.

 controlled on a maximum dose (2.5 grams/day) or meuoritim.
 In one trial, patients inadequately controlled on 2.5 grams/day of metformin (mean baseline FPG 216 mg/L and mean baseline HbAtc 8.8%) were randomized to receive 4 mg or rosiglitazone once daily, 8 mg of rosiglitazone once daily, or placebo in addition to metformin. A statistically significant improvement in FPG and HbAtc was observed in patients treated with the combinations of metformin ad 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin (2 g/day). A statistically significant improvement in FPG and HbAtc was observed in patients treated with the combinations of metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus formations of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the sulfonvlurea plus metformin, as shown in Table 14.

| Rosiglitazone Maleate | Plus Sulfonylu | rea and Metformi | n |
|--|-----------------------------|--|---------|
| | Sulfonylurea + metformin | Rosiglitazone 2 mg twice daily + sulfonylurea + metformin | |
| | N = 273 | N = 276 | N = 277 |
| FPG (mg/dL) | | | |
| Baseline (mean) | 189 | 190 | 192 |
| Change from baseline (mean) | 14 | -19 | -40 |
| Difference from sulfonylurea plus metformin (adjusted mean) | - | -30a | -52a |
| % of patients with ≥ 30 mg/dL decrease from baseline | 16% | 46% | 62% |
| HbA1c (%) | | | |
| Baseline (mean) | 8.7 | 8.6 | 8.7 |
| Change from baseline (mean) | 0.2 | -0.4 | -0.9 |
| Difference from sulfonylurea plus metformin (adjusted mean) | - | -0.6ª | -1.1a |
| % of patients with $\geq 0.7\%$ decrease | 16% | 39% | 63% |

a P < 0.0001 compared to placebo REFERENCES

ation Briefing Document. Joint meeting of od and Drug Admir plogic and Metabolic Drugs and Drug Safety and Risk the Endocrin Management Advisory Committees. July 13-14, 2010.

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- . Juurlink DN. et al. Adverse cardiovascular events during treatment ne and rosiglitazone: population based cohor BMJ 2009; 339.
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- 2004.75.157-162

HOW SUPPLIED/STORAGE AND HANDLING

Each round, standard-convex, coated tablet contains rosiglitazone as the maleate as follows: $2\mbox{ mg}$ – pink tablets, debossed with the number "93" on one side and "7322" on the other. They are available in bottles of 60.

4~mg – orange tablets, debossed with the number "93" on one side and "7323" on the other. They are available in bottles of 30, 100, and 500.

 $8\,$ mg - red-brown tablets, debossed with the number "93" on one side and "7324" on the other. They are available in bottles of 30, 100, and 500. 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).

PATIENT COUNSELING INFORMATION See Medication Guide

17.1 Patient Advice

There are multiple medications available to treat type 2 diabetes. The benefits and risks of each available diabetes medication should be taken into account when choosing a particular diabetes medication for a given patient.

Patients should be informed of the risks and benefits of rosiglitazone maleate. Rosiglitazone maleate should only be taken by adults with type 2 diabetes who are already taking rosiglitazone maleate, or who are not already taking rosiglitazone maleate and are unable to achieve adequate glycemic control on other diabetes medications, and, in consultation with heir healthcare provider, have decided not to take pioglitazone (ACTOS) for medical reasons. Inform patients that they must be enrolled in the AVANDIA-Rosiglitazone Medicines Access Program in order to receive rosiglitazone maleate.

- Patients should be informed of the following:
- · Rosiglitazone maleate is not recommended for patients with symptomatic
- Results of a set of clinical trials suggest that treatment with rosiglitazone maleate is associated with an increased risk for myocardial infarction (heart attack), especially in patients taking insulin. Clinical trials have not shown any difference between rosiglitazone maleate and comparator medications in overall mortality or CV-related mortality.
- · Rosiglitazone maleate is not recommended for patients who are taking
- · Management of type 2 diabetes should include diet control. Caloric restriction, weight loss, and exercise are essential for the proper treatment of the diabetic patient because they help improve insulin sensitivity. This is important not only in the primary treatment of type 2 diabetes, but in meintering the efficiency data the efficiency data the maintaining the efficacy of drug therapy.
- · It is important to adhere to dietary instructions and to regularly have blood glucose and glycosylated hemoglobin tested. It can take 2 weeks to see a reduction in blood glucose and 2 to 3 months to see the full effect of rosiglitazone maleate

- result in ovulation in some premenopausal anovulatory women. As a result, these patients may be at an increased risk for pregnancy while taking rosiglitazone maleate. Thus, adequate contraception in premenopausal women should be recommended. This possible effect has not been specifically investigated in clinical trials so the frequency of this occurrence is not known.

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

TEVA PHARMACEUTICALS USA Sellersville, PA 18960

Maleate (N = 815) OR (95% CI) (N = 1,018)(%) (%) MACE (a composit 1.3 0.6 2.14 (0.70, 7.83) 56 (067 262 Avocardial infarct ovascular deat 2.19 (0.38. 22 61 0.6 All cause death

ND = not defined Events are not exclusive: i.e., a patient with a cardio due to a myocardial infarction would be counted in 4 event categories (myocardial infarction; myocardial infarction, cardiovascular death, or stroke: cardiovascular death: all-cause death)

Mycardial Infarction Events in Large, Long-Term, Prospective, Randomized, Controlled Trials of Rosiglitazone Maleate: Data from 3 large, long-term, prospective, randomized, controlled clinical trials of rosiglitazone maleate were assessed separately from the meta-analysis.⁶⁻⁸ The control of the c

In a long-term, randomized, placeuo-controlleur, 2×2 lactorial that for the second state (second state) interface of the second state (ADOPT) of glycemic control with angiotensin converting enzyme inhibitor [ACEI]), on progression to overt in a 4 to 6 year comparative trial (ADOPT) of glycemic control with the 2 mycoardial infarction was higher in the subset of subjects who received rosiglitazone maleate in combination with ramipril than among subjects who received ramipril alone but not in the subset of subjects who received rosiglitazone maleate alone compared to placebo.⁶ The higher incidence of mycoardial infarction among subjects who received rosiglitazone maleate in combination with ramipril was not confirmed in the two other large (total N = 700) long term prodemized active control (total N = 670) (total N = 8.798) long-term, randomized, active-controlled clinical trials and a choice of the source of

There have been no adequately designed clinical trials directly comparing indication, or instantian, or instantian include a minute participation of the participation

une increased risk of myocardial infarction observed in the meta-analysis and large, long-term controlled clinical trials, and the increased risk of MACE observed in the meta-analysis described above, have not translated into a consistent finding of excess mortality from controlled clinical trials or observational studies. Clinical trials have not shown any difference between rosigilitazone maleate and comparator mediation. to a consistent finding of excess mortality from controlled clinical trials or servational studies. Clinical trials have not shown any difference between siglitazone maleate and comparator medications in overall mortality or -related mortality.

Mortality in Observational Studies of Rosiglitazone Maleate Compared to <u>ACTOS</u>: Three observational studies in elderly diabetic patients (age 65 years and older) found that rosiglitazone maleate statistically significantly increased the risk of all-cause mortality compared to use of ACTOS.2-4 Therapy with rosiglitazone maleate, like other thiazolidinediones, may result in ovulation in some premenonausal anovulatory women As a

scipitazone maleate tabletis are available only through a restricted **6** stribution program called the AVANDIA-Rosiglitazone Medicines Access **6**. ogram [*see Indications and Usage* (1)]. Both prescribers and patients **A** only from specially certified pharmacies participating in the program. As part of the program, prescribers will be educated in the potential increased risk of myocardial infarction and the need to limit the use of orisiglitazone maleate tablets to eligible patients. Prescribers will need to discuss with patients the risks and benefits of taking rosiglitazone maleate table. Combination with Uther Hypoglycemic Agents: the incidence and types of adverse events reported in short-term clinical trials of rosiglitazone maleate tablets to eligible patients. Prescribers will need to limit the use of discuss with patients the risks and benefits of taking rosiglitazone maleate table. The Adverse Events (≥ 5% in Any Treatment Group) Reported by Patients in Short-Term 2 Double-Blind Clinical Trials With Bosiolitazone maleate tablets. To enroll, call 1-800-AVANDIA or visit www.AVANDIA.com. 5.4 Edema

litazone maleate should be used with caution in patients with edema. In a clinical trial in healthy volunteers who received 8 mg of rosiglitazone once daily for 8 weeks, there was a statistically significant increase in

Since thiazolidinediones, including rosiglitazone, can cause fluid retention which can exacerbate or lead to congestive heart failure, rosiglitazone maleate should be used with caution in patients at risk for heart failure. Patients should be monitored for signs and symptoms of heart failure [see Boxed Warning, Warnings and Precautions (5.1), and Patient Counseling

In controlled clinical trials of patients with type 2 diabetes, mild to Reactions (6.1)].

5.5 Weight Gain

se-related weight gain was seen with rosiglitazone maleate alone and in sombination with other hypoglycemic agents (**Table 5**). The mechanism of weight gain is unclear but probably involves a combination of fluid In postmarketing experience, there have been reports of unusually rapid

Table 5. Weight Changes (kg) From Baseline at Endpoint During

[see Warnings and Precautions (s.2)]. In controlled combination therapy trials with sulfonylureas, mild to moderate hypoglycemic symptoms, which appear to be dose related, were reported. Few patients were withdrawn for hypoglycemia (< 1%) and few episodes of hypoglycemia were considered to be severe (< 1%) Hypoglycemia was the most frequently reported adverse event in the fixed-dose insulin combination trials, although few patients withdrew for

HIGHLIGHTS OF PRESCRIBING INFORMATION all the information needed to use rosiglitazone maleate tablets safely and effectively. See full prescribing information for osialitazone maleate tablets.

Initial II.S. Annroval: 1999

already taking rosiglitazone FAILURE AND MYOCARDIAL INFARCTION

See full prescribing informat for complete boxed warning.

Thiazolidinediones, includin rosiglitazone, cause or exacerbate congestive heart failure in some patients (5.1). After initiation of siglitazone maleate tablets, and after dose increases, observe patients carefully for signs and symptoms of heart failure (including excessive, rapid weight ain. dvspnea. and/or edema) If these signs and sympt develop, the heart failure should be managed according to current standards of care. Furthermore. nuation or dose reductio of rosiglitazone maleate tablet must be consi

Rosiglitazone maleate tablet vith symptoma . heart failure. Initiation c rosiglitazone maleate tablets in patients with established NYHA Class III or IV heart failure is icated. (4, 5,1)

A meta-analysis of 52 clinical 16,995 total patients), most of which compared rosiglitaz maleate to placebo, showe rosialitazone maleate to be associated with a statistic significant increased risk of myocardial infarction. Three ther trials (mean duration 46 months: 14,067 total patients), comparing rosiglitazone maleate to some other approved oral antidiabetic agents or placebo, showed a statistically ion-significant increased ris of myocardial infarction and a statistically non-significan lecreased risk of death. There have been no clinical trials rectly comparing ca risk of rosiglitazone maleate and (ACTOS[®]) (pioglitazone, another thiazolidine dione). bu

in a separate trial, pioglit

Boxed Warning

Indications and

ninistration (2)

Warnings and Precau Cardiac Failure (5.1)

Rosiglitazone REMS

Program (5.3)

Fractures (5.8)

FUL Con Wa

Reference ID: 3248447

Usage (1)

Dosage and

Events (5.2)

ROSIGLITAZONE MALEATE TABLETS

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m R}$ only

Iss. 8/2012

7322 7323 7324

----- INDICATIONS AND USAGE ----- FULL PRESCRIBING INFORMATION These highlights do not include thiazolidinedione antidiabeti healthcare professional has considered and advised the patient of the risks and benefits of osiglitazone maleate tablets, this drug is indicated as an adjunct ROSIGLITAZONE maleate tablets to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus who either are:

WARNING: CONGESTIVE HEART

maleate tablets, or not already taking rosiglitazone

maleate tablets and are unable to achieve adequate glycemic control on other diabetes medication and, in consultation with their healthcare provider, have decide not to take pioglitazone (ACTOS) for medical reasons. (1)

Other Important Limitations of Use:

- Rosiglitazone maleate tablets should not be used in patients with type 1 diabetes mellitus or for the treatment of diabetic
- Coadministration of rosiglitazone naleate tablets and insulin is no recommended. (1, 5.1, 5.2)
- DOSAGE AND ADMINISTRATION -Start at 4 mg daily in single or
- divided doses; do not exceed 8 mg daily. (2) Dose increases should he
- accompanied careful monitoring for adverse events related to fluid retention. (2)
- Do not initiate rosiglitazone
- active liver disease or increased serum transaminase levels, (2,1) - DOSAGE FORMS AND STRENGTHS -
- Round, standard-convex, coated tablets in the following strengths:

 2 mg, 4 mg, and 8 mg (3) ----- CONTRAINDICATIONS

Initiation of rosiglitazone maleate ablets in patients with estab VYHA Class III or IV heart failure is contraindicated. (4)

- WARNINGS AND PRECAUTIONS exacerbate or lead to heart failure, may occur. Combination use with II may increase risk of o cardiovascular effects. (5.1)
- Increased risk of myocardial infarction has been observed in a meta-analysis of 52 clinical trials ceho) did incidence rate 0.4% versus
- not show an increased risk of myocardial infarction or death. 0.3%). (5.2) maleate and insulir Because of the potential incre nded. (1, 5.1, 5.2)
- risk of myocardial infarction, Dose-related edema (5.4), weight 2.1 zone maleate tablets are
- vailable only through a restri distribution program called the AVANDIA®-Rosiglitazone Medicines Access Program. Both Macula
- reported. (5.7) prescribers and patients need to Increased incidence of bone enroll in the program. To enroll, call 1-800-AVANDIA or visit

fracture. (5.8 ---- ADVERSE REACTIONS -www.AVANDIA.com. [see Warnings and Precautions (5.3)]. ommon adverse reactions (> 5%) ported in clinical trials without --- BECENT MAJOB CHANGES ---regard to causality were upper

ratory tract infection, injury To report SUSPECTED ADVERSE 02/201 EACTIONS, CONTACT TE VA 02/201 1-888-838-2872. X6351 or 02/201 or FDA at 1-800-FDA-1088 or

Warnings and Precautions www.fda.gov/medwatch Major Adverse Cardiovascula ----- DRUG INTERACTIONS -02/2011 may increase rosiglitazone levels; Warnings and Precautions. inducers of CYP2C8 (e.g., rifampin) may decrease rosiglitazone levels. (7.1) 05/2012 Warnings and Precautions

See 17 for PATIENT COUNSELING 02/2011 INFORMATION and Medication Revised: 08/2012 5 1

| | | 11011000. 00/2012 |
|-----------------------------------|------|--|
| L PRESCRIBING INFORMATION: | | USE IN SPECIFIC POPULATIONS 8.1 Pregnancy |
| RNING: CONGESTIVE HEART | | 8.2 Labor and Delivery |
| LURE AND MYOCARDIAL | | 8.3 Nursing Mothers |
| ARCTION | | 8.4 Pediatric Use |
| INDICATIONS AND USAGE | | 8.5 Geriatric Use |
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| STRENGTHS | | 12.1 Mechanism of Action |
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| 5.1 Cardiac Failure | | 12.4 Drug-Drug Interactions |
| 5.2 Major Adverse | | NONCLINICAL TOXICOLOGY |
| Cardiovascular Events | | 13.1 Carcinogenesis, |
| 5.3 Rosiglitazone REMS (Risk | | Mutagenesis, Impairment |
| Evaluation and Mitigation | | of Fertility |
| Strategy) Program | | 13.2 Animal Toxicology and/or |
| 5.4 Edema | | Pharmacology |
| 5.5 Weight Gain | | CLINICAL STUDIES |
| 5.6 Hepatic Effects | | 14.1 Monotherapy |
| 5.7 Macular Edema | | 14.2 Combination With |
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| 5.9 Hematologic Effects | | 14.3 Combination With |
| 5.10 Diabetes and Blood | 45.1 | Sulfonylurea Plus Metformin REFERENCES |
| Glucose Control 5.11 Ovulation | | HOW SUPPLIED/STORAGE |
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| 6.1 Clinical Trial Experience | | PATIENT COUNSELING |
| 6.2 Laboratory Abnormalities | | INFORMATION |
| 6.3 Postmarketing Experience | | 17.1 Patient Advice |
| DRUG INTERACTIONS | | DICATION GUIDE |
| 7.1 CYP2C8 Inhibitors and | | ctions or subsections omitted |
| Inducers | | the full prescribing information |
| maaooro | | not listed. |
| | 3101 | |
| | | |

Rosiglitazone maleate tablets are WARNING: CONGESTIVE HEART FAILURE AND MYOCARDIAL NYHA Class III or IV heart failure is contraindicated. Rosiglitazone maleate INFARCTION nes, including rosiglitazone, cause or exacerbat

Thiazolidined congestive heart failure in some patients [see Warnings and Precautions (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 neart failure should be managed according to current standards of should be considered. 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 tients with established NYHA Class III or IV heart failure is contraindicated Contraindications (4) and Warnings and Precautions (5.1)

A meta-analysis of 52 clinical trials (mean duration 6 months 6,995 total patients), most of which compared rosiglitazone maleate to placebo, showed rosiglitazone maleate to be associated with a tatistically significant increased risk of myocardial infarction. Three other trials (mean duration 46 months: 14.067 total patients), comparing origilitazione 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 decreased risk of death. There have been no clinical trials directly comparing cardiovascular risk of rosiglitazone maleate and ACTOS® (pioplitazone another thiazolidinedione) but in a separate trial nionitazone (when pared to placebo) did not show an increased risk of myocardia nfarction or death [see Warnings and Precautions (5.2)].

 Because of the potential increased risk of myocardial infarctio istribution program called the AVANDIA-Rosiglitazone Medicines Heart Failure in Observational Studies of Elderly Diabetic Patients Comparing Rosiglitazone Maleate to ACTOS: Three observational 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)].

INDICATIONS AND USAGE onsultation with a healthcare professional who has considered and After consultation with a freathcare professional who has considered and advised the patient of the risks and benefits of rosiglitazone maleate tablets, this drug is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus who either are:

already taking rosiglitazone maleate tablets, or

 not already taking rosiglitazone maleate tablets and are unable to achieve adequate glycemic control on other diabetes medications and, in consultation with their healthcare provider, have decided not to take and in observational studies. pioglitazone (ACTOS[®]) for medical reasons.

Other Important Limitations of Use:

· Due to its mechanism of action, rosiglitazone maleate is active only in the presence of endogenous insulin. Therefore, rosiglitazone maleate tablets should not be used in patients with type 1 diabetes mellitus or for the treatment of diabetic ketoacidosis.

 The coadministration of rosiglitazone maleate tablets and insulin is not ended [see Warnings and Precautions (5.1)].

DOSAGE AND ADMINISTRATION Prior to prescribing rosiglitazone maleate tablets, refer to *Indications and* Usage (1) for appropriate patient selection. Only prescribers enrolled in the AVANDIA-Rosiglitazone Medicines Access Program can prescribe rosiglitazone maleate tablets [see Warnings and Precautions (5.3)]

may occur. Compination use with insulin and use in congestive heart failure NYHA Class I and either as a single daily dose or in 2 divided doses. For patients who respond inadequately following 8 to 12 weeks of treatment, as determined by reduction in fasting plasma glucose (FPG), the dose may be increased to 8 mg daily. Increases in the dose of rosiglitazone maleate tablets should be accompanied by careful monitoring for adverse events related to fluid retention [see Boxec Warning and Warnings and Precautions (5.1). Rosiglitazone maleate tablets may be taken with or without food.

The total daily dose of rosiglitazone maleate tablets should not exceed 8 mg. Coadministration of rosiglitazone Patients receiving rosiglitazone maleate tablets in combination with other is not hypoglycemic agents may be at risk for hypoglycemia, and a reduction in the dose of the concomitant agent may be processory. the dose of the concomitant agent may be necessary.

Specific Patient Populations

Renal Impairment: No dosage adjustment is necessary when rosiglitazone ablets are used as monotherapy in patients with real impairment. etformin is contraindicated in such patients, concomitant nce metformin is contraindicated in such patients, concomitant ministration of metformin and rosiglitazone maleate tablets are also contraindicated in patients with renal impairment.

Hepatic Impairment: Liver enzymes should be measured prior to initiating treatment with rosiglitazone maleate tablets. Therapy with rosiglitazone maleate tablets should not be initiated if the patient exhibits clinical matate tablets should not be initiated in the patient exhibits clinical evidence of active liver disease or increased serven transaminase levels (ALT > 2.5X upper limit of normal at start of therapy). After initiation of rosiglitazone maleate tablets, liver enzymes should be monitored periodically per the clinical judgment of the healthcare professional [see Warnings and Precautions (5.6) and Clinical Pharmacology (12.3)].

Pediatric: Data are insufficient to recommend pediatric use of rosiglitazone maleate tablets [see Use in Specific Populations (8.4)]. DOSAGE FORMS AND STRENGTHS

standard-convex, coated tablet contains rosiglitazone as th maleate as follows:

• 2 mg - pink, debossed with "93" on one side and "7322" on the other • 4 mg - orange, debossed with "93" on one side and "7323" on the other

Inhibitors of CYP2C8 (e.g., gemfibrozil) • 8 mg - red-brown, debossed with "93" on one side and "7324" on the othe

CONTRAINDICATIONS

Initiation of rosiglitazone maleate tablets in patients with established New York Heart Association (NYHA) Class III or IV heart failure is raindicated [see Boxed Warning]

WARNINGS AND PRECAUTIONS

Cardiac Failure zone maleate, like other thiazolidinediones, alone or in combinatio with other antidiabetic agents, can cause fluid retention, which may exacerbate or lead to heart failure. Patients should be observed for signs and symptoms of heart failure. If these signs and symptoms develop, the eart failure should be managed according to current standards of care. urthermore, discontinuation or dose reduction of rosiglitazone must be considered [see Boxed Warning].

Patients with congestive heart failure (CHF) NYHA Class I and II treated with rosiglitazone maleate have an increased risk of cardiovascular events. A 52 week, double-blind, placebo-controlled echocardiographic trial was cted in 224 patients with type 2 diabetes mellitus and NYHA Class I II CHE (ejection fraction < 45%) on background antidiabetic and CHF therapy. An independent committee conducted a blinded evaluation of fluid-related events (including congestive heart failure) and cardiovascular hospitalizations according to predefined criteria (adjudication). Separate from the adjudication, other cardiovascular adverse events were reported by investigators. Although no treatment difference in change from baseline f election fractions was observed more cardiovascular adverse events litazone maleate com bserved following treatment with rosiglit o during the 52 week trial (see Table 1)

| placebo daring the 52 week that (See laber 1). |
|---|
| Table 1. Emergent Cardiovascular Adverse Events in Patients With Congestive |
| Heart Failure (NYHA Class I and II) Treated With Rosiglitazone Maleate or |
| Placebo (in Addition to Background Antidiabetic and CHF Therapy) |

| Placebo (in Addition to Backgroun | | |
|---|-----------------------|----------|
| Events | Rosiglitazone Maleate | Placebo |
| | N = 110 | N = 114 |
| | n (%) | n (%) |
| Adjudicated | | |
| Cardiovascular deaths | 5 (5%) | 4 (4%) |
| CHF worsening | 7 (6%) | 4 (4%) |
| - with overnight hospitalization | 5 (5%) | 4 (4%) |
| - without overnight hospitalization | 2 (2%) | 0 (0%) |
| New or worsening edema | 28 (25%) | 10 (9%) |
| New or worsening dyspnea | 29 (26%) | 19 (17%) |
| Increases in CHF medication | 36 (33%) | 20 (18%) |
| Cardiovascular hospitalizationa | 21 (19%) | 15 (13%) |
| | | |
| Investigator-reported, | | |
| non-adjudicated | | |
| Ischemic adverse events | 10 (9%) | 5 (4%) |
| Myocardial infarction | 5 (5%) | 2 (2%) |
| – Angina | 6 (5%) | 3 (3%) |

a Includes hospitalization for any cardiovascular reasor

myocardial infarctio 70 (0.7) ardiovascular death 17 (0 2) Cardiovascular Death 18 (0.2 Events are not ex

ee Table 2

52 Clinical Trials

MACE (a composite

Events are not exclusive: i.e., a patient with a cardiovascular du due to a myocardial infarction would be counted in 4 event catego (myocardial infarction; myocardial infarction, cardiovascular death, stroke; cardiovascular death; all-cause death)

Patients experiencing acute coronary syndromes have not been studied in

controlled clinical trials. In view of the potential for development of heart failure in patients having an acute coronary event, initiation of rosiglitazone maleate is not recommended for patients experiencing an acute coronary

event, and discontinuation of rosiglitazone maleate during this acute phase

Patients with NYHA Class III and IV cardiac status (with or without CHE)

have not been studied in controlled clinical trials. Bosiglitazone maleate is

not recommended in patients with NYHA Class III and IV cardiac status.

Congestive Heart Failure During Coadministration of Rosiglitazone Maleate With Insulin: In trials in which rosiglitazone maleate was added to insulin, rosiglitazone maleate increased the risk of congestive heart failure.

see Indications and Usage (1) and Warnings and Precautions (5.2)].

administration of rosiglitazone maleate and insulin is not recommended

7 controlled, randomized, double-blind trials which had durations from

16 to 26 weeks and which were included in a meta-analysis¹ [see Warnings

and Precautions (5.2)], patients with type 2 diabetes mellitus were randomized to coadministration of rosiglitazone maleate and insulin

domized to coadministration of rosiglitazone maleate and insuli = 1,018) or insulin (N = 815). In these 7 trials, rosiglitazone maleat

as added to insulin. These trials included patients with long-standing

betes (median duration of 12 years) and a high prevalence of preexisting

edical conditions, including peripheral neuropathy, retinopathy, ischemi

tudies²⁻⁴ in elderly diabetic patients (age 65 years and older) found nat rosiglitazone maleate statistically significantly increased the risk

hospitalized heart failure compared to use of (ACTOS). One other

or hospitalization for heart failure in patients treated with rosiglitazone

52 clinical trials, in long-term, prospective, randomized, controlled trials,

Meta-Analysis of Major Adverse Cardiovascular Events in a Group of 52 Clinical Trials: A meta-analysis was conducted retrospectively to assess cardiovascular adverse events reported across 52 double-blind, randomized,

conducted tailed that the first and a solution to the set of the s

and add-on trials (rosiglitazone maleate or placebo, added to sulfonylurea

tformin, or insulin). Active control trials included monotherapy trials

iglitazone maleate, 6,956 in comparator groups), with 5,167 patient-years

arator. Cardiovascular events occurred more frequently for patients who

azone maleate than for patients who received comparat

(N = 6.956)

n (%)

39 (0.6)

9 (0 1)

16 (0.2)

17 (0.2

5.3

f exposure to rosiglitazone maleate and 3,637 patient-years of exposure to

Table 2. Occurrence of Cardiovascular Events in a Meta-Analysis of

(N = 10,039)

n (%)

itrolled clinical trials (mean duration 6 months).¹ These trials had bee

naleate compared to ACTOS in the older subgroup.

5.2 Major Adverse Cardiovascular Events

ional study⁵ in patients with a mean age of 54 years, which also

ascular adverse events have been evaluated in a meta-analysis of

this analysis, a statistically significant increased risk of myocardia arction with rosigilitation maleate versus pooled comparators was served. Analyses were performed using a composite of major adverse roliovascular events (myocardial infarction, stroke, and cardiovascular ath), referred to hereafter as MACE. Rosiglitazone maleate had a statistically non-significant increased risk of MACE compared to the pooled comparators. A statistically significant increased risk of myocardia farction and statistically non-significant increased risk of MACE with siglitazone maleate was observed in the placebo-controlled trials. In the there was no increased risk of myocardial infarction or MACE (see Figure 1 and Table 3).

Placeb RSG vs pla Active RSG VS CC 0039 8124 5636 2119 1918 z 54 28 16 (0.8%) 14 (0.7%) 39 39 (%) .7%) .5%) 7%) 6%) 5 51 RSC 13 33 9 10 (0.4%) (0.2%) (0.5%) (0.5%) (%) -avor. .4%) .3%) RSC

Figure 1. Forest Plot of Odds Ratios (95% Confidence Intervals) for MACE Table 3. Occurrence of MACE and Myocardial Infarction in a Meta-Analysis of 52 Clinical Trials by Trial Type

| | N | n (0/) | 0.0 | | |
|----------|--------------------------|--|--|--|--|
| I | | n (%) | OR (95% CI) | n (%) | OR (95% CI) |
| RSG | 2,119 | 16 (0.8%) | 1.05 | 10 (0.5%) | 1.00 |
| Control | 1,918 | 14 (0.7%) | (0.48, 2.34) | 9 (0.5%) | (0.36, 2.82) |
| RSG | 8,124 | 54 (0.7%) | 1.53 | 35 (0.4%) | 2.23 |
| Placebo | 5,636 | 28 (0.5%) | (0.94, 2.54) | 13 (0.2%) | (1.14, 4.64) |
| RSG | 10,039 | 70 (0.7%) | 1.44 | 45 (0.4%) | 1.8 |
| Control | 6,956 | 39 (0.6%) | (0.95, 2.20) | 20 (0.3%) | (1.03, 3.25) |
| litazone | | | | | |
| С | lacebo RSG Control | Placebo 5,636 RSG 10,039 Control 6,956 | Placebo 5,636 28 (0.5%) RSG 10,039 70 (0.7%) Control 6,956 39 (0.6%) | Hacebo 5,636 28 (0.5%) (0.94, 2.54) RSG 10,039 70 (0.7%) 1.44 Control 6,956 39 (0.6%) (0.95, 2.20) | Hacebo 5,636 28 (0.5%) (0.94, 2.54) 13 (0.2%) RSG 10,039 70 (0.7%) 1.44 45 (0.4%) Control 6,956 39 (0.6%) (0.95, 2.20) 20 (0.3%) |

If the placebo-controlled trials in the meta-analysis, 7 trials had patients andomized to rosiglitazone maleate plus insulin or insulin. There were more patients in the rosiglitazone plus insulin or insulin. Intere were insulin group compared to the insulin group with myccardial infarctions, MACE, cardiovascular deaths, and all-cause deaths (see **Table 4**). The total number of patients with stroke was 5 (0.5%) and 4 (0.5%) in the rosiglitazone maleate plus insulin group (0.0, 8.1) for rosiglitazone maleate plus

One observational study⁵ in patients with a mean age of 54 years found no difference in all-cause mortality between patients treated with rosiglitazone maleate compared to ACTOS and reported similar result, these patients may be at an increased risk for pregnancy while small, prospective, observational study¹⁰ found no statistically significant differences for CV mortality and all-cause mortality in patients treated with rosiglitazone maleate compared to ACTOS. **5.3 Periodifference Determine De** Rosiglitazone REMS (Risk Evaluation and Mitigation Nonclinical Toxicology (13.1)], the clinical significance of this finding is Strategy) Program Because of the potential increased risk of myocardial infarction,

ust enroll in the program to be able to prescribe or receive rosiglitazone have been treated with rosiglitazone maleate. aleate tablets, respectively. Rosiglitazone maleate tablets will be available Short-Term Trials of Rosiglitazone Maleate as Monotherapy and in 6.3 Postmarketing Experience

edian plasma volume compared to placebo.

noderate edema was reported in patients treated with rosiglitazone naleate, and may be dose related. Patients with ongoing edema were nore likely to have adverse events associated with edema if started on mbination therapy with insulin and rosiglitazone maleate [see Adverse

increases in weight and increases in excess of that generally observed in clinical trials. Patients who experience such increases should be assessed or fluid accumulation and volume-related events such as excessive edema Events of anemia and edema tended to be reported more frequently at and congestive heart failure [see Boxed Warning].

| | | | ai illais | | | |
|-----------------------------|-------------------|--------------------------------|---|---|---|--|
| | | Control | Rosiglitazone Control Group 4 mg | | Rosiglitazone 8 mg | |
| Monotherapy | Duration | | Median (25 th , 75 th percentile) | Median (25 th , 75 th percentile) | Median (25 th , 75 th percentile) | |
| | 26 weeks | placebo | -0.9 (-2.8, 0.9) N = 210 | 1.0 (-0.9, 3.6) N = 436 | 3.1 (1.1, 5.8) N = 439 | |
| | 52 weeks | sulfonylurea | 2.0 (0, 4.0) N = 173 | 2.0 (-0.6, 4.0) N = 150 | 2.6 (0, 5.3) N = 157 | |
| Combination therapy | | | | | | |
| Sulfonylurea | 24 to 26 weeks | sulfonylurea | 0 (-1.0, 1.3) N = 1,155 | 2.2 (0.5, 4.0) N = 613 | 3.5 (1.4, 5.9) N = 841 | |
| Metformin | 26 weeks | metformin | -1.4 (-3.2, 0.2) N = 175 | 0.8 (-1.0, 2.6) N = 100 | 2.1 (0, 4.3) N = 184 | |
| Insulin | 26 weeks | insulin | 0.9 (-0.5, 2.7) N = 162 | 4.1 (1.4, 6.3) N = 164 | 5.4 (3.4, 7.3) N = 150 | |
| Sulfonylurea + metformin | 26 weeks | sulfonylurea + metformin | 0.2 (-1.2, 1.6) N = 272 | 2.5 (0.8, 4.6) N = 275 | 4.5 (2.4, 7.3) N = 276 | |

revisively experience of the provided and the provided with the provided with the provided with the provided and the provided liver enzyme monitoring, to determine if the liver enzyme elevations resolve among the 3 treatment groups. in patients on therapy with rosiglitazone maleate, liver enzyme levels should herabenevel en easy and encevity of the under symptonic and the symptonic and to worsen in a day with ALL revels increase to 25 K the opper limit of works in patients on therapy with rosiglitazone maleate, liver enzyme levels should be rechecked as soon as possible. If ALT levels remain > 3X the upper limit of normal, therapy with rosiglitazone maleate should be discontinued.

If any patient develops symptoms suggesting hepatic dysfunction, which may include unexplained nausea, vomiting, abdominal pain, fatigue, anorexia and/or dark urine, liver enzymes should be checked. The decision whether to tinue the patient on therapy with rosiglitazone maleate should be guided by clinical judgment pending laboratory evaluations. If jaundice is observ drug therapy should be discontinued [see Adverse Reactions (6.2, 6.3)]. Macular Edema

Macular deem has been reported in postmarketing experience in some diabetic patients who were taking rosiglitazone maleate or another thiazolidinedione. Some patients presented with blurred vision or decreased visual acuity, but some patients appear to have been diagnosed on routine ophthalmologic examination. Most patients had peripheral the trials included patients with impaired glucose tolerance, patients with type 2 diabetes who were initiating oral agent monotherapy and vere initiating dual oral agent therapy. Duration of follow-up exceeded 3 years in each trial. In each of these trials, there was a statistically non-significant increase in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus in the risk of myocardial infarction for rosiglitazone maleate versus is the versus table versus table in the rest of the most common adverse reactions (> 10%) without regard to causality for the versus table versus table versus tables in the rest of the rest of

> monotherapy in drug-naïve patients recently diagnosed with type 2 diabetes mellitus, an increased incidence of bone fracture was noted **6.2** Laboratory Abnormalities in female patients taking rosiglitazone maleate. Over the 4 to 6 year period, the incidence of bone fracture in females was 9.3% (60/645) a dose-related fashion in adult patients treated with rosiglitazone maleate

5.7

Periodic fasting blood glucose and HbA1c measurements should be

Preferred

respiratory

tract infecti

Back pain

Injury

maleate

Term

not known. If unexpected mentrual dysfunction occurs, the benefits of continued therapy with rosiglitazone maleate should be reviewed.

ADVERSE REACTIONS

6.1 Clinical Trial Experience Adult: In clinical trials, approximately 9,900 patients with type 2 diabetes

Combination With Other Hypoglycemic Agents: The incidence and types of

Patients in Short-Terma Double-Blind Clinical Trials With Rosiglitazone Maleate as Monotherapy

| iorapy | | | |
|---------------------------------------|------------|-----------|----------------|
| osiglitazone Maleate onotherapy | Placebo | Metformin | Sulfonylureasb |
| N = 2,526 | N = 601 | N = 225 | N = 626 |
| % | % | % | % |
| 9.9 | 8.7 | 8.9 | 7.3 |
| 7.6 | 4.3 | 7.6 | 6.1 |
| 5.9 | 5.0 | 8.9 | 5.4 |
| 4.0 | 3.8 | 4.0 | 5.0 |
| 3.9 | 5.7 | 4.4 | 8.1 |
| 3.6 | 5.0 | 4.0 | 1.9 |
| 3.2 | 4.5 | 5.3 | 3.0 |
| 2.3 | 3.3 | 15.6 | 3.0 |
| 0.6 | 0.2 | 1.3 | 5.9 |
| ranged from | 9 wooko to | 1 vear | |

^a Short-term trials ranged from 8 weeks to b Includes patients receiving glyburide (N = 514), gliclazide (N = 91), or

glipizide (N = 21). verall, the types of adverse reactions without regard to causality reported when rosiglitazone maleate was used in combination with a sulfonylurea or metformin were similar to those during monotherapy with rosiglitazone

higher doses, and were generally mild to moderate in severity and usually did not require discontinuation of treatment with rosiglitazone maleate.

In double-blind trials, anemia was reported in 1.9% of patients receiving rosiglitazione maleate as monotherapy compared to 0.7% or placebo 0.6% on sulfonylureas, and 2.2% on metformin. Reports of anemia were greater in patients treated with a combination of rosiglitazone maleate and metformin (7.1%) and with a combination of rosiglitazone maleate and a sulfonylurea plus metformin (6.7%) compared to monotherapy with

nitiation of rosiglitazone maleate tablets in patients with established VYHA Class III or IV heart failure is contraindicated. Rosiglitazone maleate tyreated with symptomatic heart failure see Boxed Warning]. Patients experiencing acute coronary syndromes have not been studied in Patients experiencing acute coronary syndromes have not been studied in Patients experiencing acute coronary syndromes have not been studied in set as a coronary syndromes have not been studied in trials 5.6 Hepatic Effects Live rezymes should be measured prior to the initiation of therapy with rosiglitazone maleate in all patients and periodically thereafter per the clinical judgment of the healthcare professional. Therapy with rosiglitazone maleate should not be initiated to be initiated baseline liver enzyme levels (ALT > 2.5X upper limit of normal). Patients with mildly elevated liver

resignitization emalate (93%, 2.7100 patient-years) compared to ((3.5%, 1.3/100 patient-years) or metformin (5.1%, 1.5/100 patient The majority of the fractures in the women who received rosigilitaz vith rosiglitazone maleate in patients with mild liver enzyme elevations reported in the upper arm, hand, and foot [see Warnings and Precautions hould proceed with caution and include close clinical follow-up, including (5.8)]. The observed incidence of fractures for male patients was similar

Maleate as Monotherapy (ADOPT

| | Rosiglitazone Maleate | Glyburide | Metformin |
|--------------------------------------|--------------------------|---|------------|
| | N = 1,456 | N = 1,441 | N = 1,454 |
| | PY = 4,954 | PY = 4,244 | PY = 4,906 |
| asopharyngitis | 6.3 | 6.9 | 6.6 |
| ack pain | 5.1 | 4.9 | 5.3 |
| rthralgia | 5.0 | 4.8 | 4.2 |
| ypertension | 4.4 | 6.0 | 6.1 |
| pper espiratory tract ifection | 4.3 | 5.0 | 4.7 |
| ypoglycemia | 2.9 | 13.0 | 3.4 |
| iarrhea | 2.5 | 3.2 | 6.8 |
| | | been evaluated for ents with type 2 di | |

sincluded an analysis in a subpopulation of patients > 65 years of age, found no statistically significant increase in emergency department visits found no statistically significant increase in emergency department visits found no statistically significant increase in emergency department visits found no statistical for home headache (17% versus 14%) and diarrhee anasea (4% versus 11%), nasopharyngitis (3% versus 12%), and diarrhee nausea (4% versus 11%), nasopharyngitis (3% versus 12%), and diarrh (1% versus 13%). In this trial, one case of diabetic ketoacidosis was report in the metformin group. In addition, there were 3 patients in the rosiglitazone group who had FPG of ~300 mg/dL, 2+ ketonuria, and an elevated anion gap.

(30/590) for metformin. This increased incidence was noted after the first year of treatment and persisted during the course of the trial. The majority of the fractures in the women who received rosiglitazone maleate occurred following a dose increase in rosiglitazone maleate. The time course and in the upper arm, hand, and foot. These sites of fracture are different from magnitude of decreases were similar in patients treated with a combinatio these usually associated with postmenopausal osceporosis (e.g., hip or spine). Other trials suggest that this risk may also apply to men, although the risk of fracture among women appears higher than that among men. The risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients treated with the risk of fracture should be considered in the care of patients the rest of an emain the risk of fracture should be considered in the care of patients the rest of an emain the risk of fracture should be considered in the care of patients the rest of an emain the risk of th There have been no adequately designed clinical triats directly comparing rosiglitazone maleate to ACTOS (pioglitazone) on cardiovascular risks. However, randomized, placebo-controlled cardiovascular outcomes trial comparing ACTOS (pioglitazone) to placebo in patients with type 2 diabetes mellitus and prior macrovascular disease, ACTOS (pioglitazone) was not associated with an increased risk of myocardial infarction or total mortality.⁹ The tisk of macture should be considered in the care of patients treated with rosiglitazone maleate, and attention given to assessing and maintain bone health according to current standards of care. **5.9 Hematologic Effects** Decreases in nean hemoglobin and hematocrit occurred in a dose-related fashion in adult patients treated with rosiglitazone maleate [*see Adverse Reactions (6.2)*]. The observed changes may be related to the increased nalexte. Decreases in hemotologic parameters may be related to increased nalexte. Decreases in hemotologic parameters may be related to increased nalexte. Decreases in hemotologic parameters may be related to increased nalexte. Decreases in hemotologic parameters may be related to increased nalexte. Decreases in hemotologic parameters may be related to increased nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related to nalexte. Decreases in hemotologic parameters may be related. plasma volume observed with treatment with rosiglitazone maleate.

Lipids: Changes in serum lipids have been observed following treatm vith rosiglitazone maleate in adults [see Clinical Pharmacology (12.2)] Small changes in serum lipid parameters were reported in children treate with rosiglitazone maleate for 24 weeks

Serum Transaminase Levels: In pre-approval clinical trials in 4.598 natients maleate (3.600 patient-years of expo in a long-term 4 to 6 year trial in 1,456 patients treated with rosigilitazone maleate (4,954 patient-years exposure), there was no evidence of drug-induced hepatotoxicity.

In pre-approval controlled trials, 0.2% of patients treated with rosiglitazor maleate had elevations in ALT > 3X the upper limit of normal compared to 0.2% on placebo and 0.5% on active comparators. The ALT elevations in patients treated with rosiglitazone maleate were reversibl Hyperbilirubinemia was found in 0.3% of patients treated with rosiglitazone maleate compared with 0.9% treated with placebo and 1% in patients treated with active comparators. In pre-approval clinical trials, there were no cases distinguished to be a set of the of idiosyncratic drug reactions leading to hepatic failure [see Warnings and Precautions (5.6)].

In the 4 to 6 year ADOPT trial, patients treated with rosiglitazone maleate (4,954 patient-years exposure), glyburide (4,244 patient-years exposure), or netformin (4.906 patient-years exposure), as monotherapy, had the same rate of ALT increase to > 3X upper limit of normal (0.3 per 100 patient-year exposure).

In addition to adverse reactions reported from clinical trials, the events described below have been identified during post-approval use of rosiglitazone maleate. Because these events are reported voluntarily from a population of unknown size, it is not possible to reliably estimate their frequency or to always establish a causal relationship to drug exposure In patients receiving thiazolidinedione therapy, serious adverse events with or without a fatal outcome, potentially related to volume expansion (e.g., congestive heart failure, pulmonary edema, and pleural effusions) have been reported [see Boxed Warning and Warnings and Precautions (5.1)].

There are postmarketing reports with rosiglitazone maleate of hep hepatic enzyme elevations to 3 or more times the upper limit of normal, and hepatic failure with and without fatal outcome, although causality has not been established.

There are postmarketing reports with rosiglitazone maleate of rash, pruritus, urticaria, angioedema, anaphylactic reaction, Stevens-Johnson syndrome, and new onset or worsening diabetic macular edema with decreased visual acuity [see Warnings and Precautions (5.7)].

DRUG INTERACTIONS

7.1 CYP2C8 inhibitors and inducers An inhibitor of CYP2C8 (e.g., gemfibrozil) may increase the AUC of rosiglitazone and an inducer of CYP2C8 (e.g., rifampin) may decrease the AUC of rosiglitazone. Therefore, if an inhibitor or an inducer of CYP2C8 is started or stopped during treatment with rosiglitazone, changes in diabetes ment may be needed based upon clinical response [see Clinical

LISE IN SPECIFIC POPULATIONS

Pregnancy

Teratogenic Effects Pregnancy category C

I pregnancies have a background risk of birth defects, loss, or other adverse outcome regardless of drug exposure. This background risk adverse outcome regardless of drug exposure. This background risk decreased in pregnancies complicated by hyperglycemia and may be decreased with good metabolic control. It is essential for patients with diabetes or history of gestational diabetes to maintain good metabolic control before conception and throughout pregnancy. Careful monitoring of glucose control is essential in such patients. Most experts recommend that insulin monotherapy be used during pregnancy to maintain blood glucose levels as close to normal as possible.

a supporting puis metrormin (6.7%) compared to monotherapy with rosiglitazone maleate or in combination with a sulfonylurea (2.3%). Lower pre-treatment hemoglobin/hematocrit levels in patients enrolled in the metformin combination clinical trials may have contributed to the higher reporting rate of anemia in these trials lsee Adverse Reactions (6.2) Human Data: Rosiglitazone has been reported to cross the human placenta

reporting rate of anemia in these trials [see Adverse Reactions (6.2)]. Animal Studies: There was no effect on implantation or the embryo with In clinical trials, edema was reported in 4.8% of patients receiving rosiglitazone treatment during early pregnancy in rats, but treatment during mid-late gestation was associated with fetal death and growth retardation maleate as monotherapy compared to 1.3% on placebo, 1.0% on sulfonylureas, and 2.2% on metformin. The reporting rate of edema was higher for n but rats and rabbits. Teratogenicity was not observed at doses up to and 2.2% on metformin. The reporting rate of edema was higher for rosiglitazone 8 mg in sulfonylurea combinations (12.4%) compared to other combinations, with the exception of insulin. Edema was reported in 14.7% of patients receiving rosiglitazone maleate in the insulin combination trials receiving rosiglitazone maleate in the insulin combination trials of 1% for insulin alone. Reports of new onset or exacerbation of and 3% (8 mg) for insulin incombinations (5.1). The use of rosiglitazone maleate [see Boxed Warning and Warnings and Precautions (5.1)]. The use of rosiglitazone maleate [see Warning and Precautions (5.2)]. The use of rosiglitazone maleate [see Rowed in combinations failing and Precautions (5.2)]. The use of rosiglitazone maleate [see Boxed in combination that any increase the risk of myocardial infarction [see Warnings and Precautions (5.2)]. The use of rosiglitazone maleate [see Rowed in combination therany trials with sulforylures mild to solve of the sulface of th

Bosiglitazone Maleate Tablets

your medical condition or your treatment. If make more insulin. vou have any questions about rosiglitazone Rosiglitazone maleate tablets are not for maleate tablets, ask your doctor or pharmacist. people with type 1 diabetes mellitus or to What is the most important information I treat a condition called diabetic ketoacidosis.

tablets? Rosiglitazone maleate tablets is available under 18 years old. 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.

serious side effects, including: New or worse heart failure

- Rosiglitazone maleate tablets can cause you in particular. your body to keep extra fluid (fluid Before taking rosiglitazone maleate tablets, and weight gain. Extra body fluid can make conditions, including if you:
- some heart problems worse or lead to have heart problems or heart failure. heart failure. Heart failure means your • have type 1 ("juvenile") diabetes or had 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 are breast-feeding or planning to breastuncomfortable 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

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 medicine. They will tell you if it is alright to 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 • Take rosiglitazone maleate tablets exactly 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 Read this Medication Guide carefully before tablets may be used alone or with other you start taking rosiglitazone maleate tablets diabetes medicines. Rosiglitazone maleate and each time you get a refill. There may be tablets can help your body respond better new information. This information does not to insulin made in your body. Rosiglitazone take the place of talking with your doctor about maleate tablets do not cause your body to

should know about rosiglitazone maleate It is not known if rosiglitazone maleate tablets are safe and effective in children

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, Rosiglitazone maleate tablets may cause ask your doctor about what the choices are for diabetes medicines, and what the expected benefits and possible risks are for

retention), which leads to swelling (edema) tell your doctor about all your medical

- 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 eve)
- 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 vour doctor right away if you become pregnant while taking rosiglitazone maleate tablets.
- 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 Call your doctor or go to the nearest 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 take rosiglitazone maleate tablets with other medicines.

How should I take rosiglitazone maleate tablets?

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 **Ovulation** (release of egg from an ovary in χ 8.3 Nursing Mothers prescribed alone or with other diabetes a woman) leading to pregnancy. Ovulation 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 full effect on your blood sugar level.
- If you miss a dose of rosiglitazone maleate and headache. tablets, take it as soon as you remember, Call your doctor for medical advice about Take your next dose at the usual time. Do FDA at 1-800-FDA-1088. not take double doses to make up for a How should I store rosiglitazone maleate missed dose.
- 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 weight, and get regular exercise while taking rosiglitazone maleate tablets.
- Your doctor should do blood tests to check maleate tablets your liver before you start rosiglitazone maleate tablets.

rosiglitazone maleate tablets? Rosiglitazone maleate tablets may cause This Medication Guide summarizes important serious side effects including:

- New or worse heart failure. See "What is the most important information I tablets?"
- about rosiglitazone maleate tablets?". 1-888-838-2872, MEDICAL AFFAIRS.
- Swelling (edema). Rosiglitazone maleate What are the ingredients in rosiglitazone tablets can cause swelling due to fluid maleate tablets? retention. See "What is the most important Active Ingredient: rosiglitazone maleate. information I should know about rosiglitazone maleate tablets?".
- be due to fluid retention or extra body fat. about rosiglitazone maleate tablets?".
- Liver problems. It is important for your Always check to make sure that the doctor should do blood tests to check your standard-convex and look like this: liver before you start taking rosiglitazone maleate tablets and during treatment as "72202" on the other 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 eve 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

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?".

maleate tablets to start lowering blood The most common side effects of sugar. It may take 2 to 3 months to see the rosiglitazone maleate tablets reported in clinical trials included cold-like symptoms

unless it is time to take your next dose. side effects. You may report side effects to

tablets?

- If you take too many rosiglitazone maleate 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
- stay on your recommended diet, lose extra Keep rosiglitazone maleate tablets and all medicines out of the reach of children.

General information about rosiglitazone

Medicines are sometimes prescribed maleate tablets and during treatment as for purposes other than those listed in a needed. Your doctor should also do regular Medication Guide. Do not use rosiglitazone blood sugar tests (for example, "A1C") to maleate tablets for a condition for which monitor your response to rosiglitazone they were not prescribed. Do not give rosiglitazone maleate tablets to other people, What are possible side effects of even if they have the same symptoms you have. They may harm them.

information about rosiglitazone maleate tablets. If you would like more information, talk with your doctor. You can ask your should know about rosiglitazone maleate doctor or pharmacist for information about rosiglitazone maleate tablets that is written for healthcare professionals. You can also • Heart attack. See "What is the most find out more about rosiglitazone maleate important information I should know tablets by calling Teva Pharmaceuticals at

Inactive Ingredients: croscarmellose sodium, • Weight gain. Rosiglitazone maleate lactose monohydrate, magnesium stearate, hypromellose (2910, 6cP), iron oxide red, tablets can cause weight gain that may microcrystalline cellulose, polyethylene glycol, povidone, talc, titanium dioxide, and Weight gain can be a serious problem for triacetin. In addition, the 2 mg tablet contains people with certain conditions including FD&C blue #2 (indigo carmine aluminum heart problems. See "What is the most lake), the 4 mg tablet contains iron oxide important information I should know black, and the 4 mg and 8 mg tablets contain iron oxide yellow.

liver to be working normally when you medicine you are taking is the correct one. take rosiglitazone maleate tablets. Your Rosiglitazone maleate tablets are round 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

lss. 11/2011

 8.4 Pediatric Use
 After placebo run-in including diet counseling, children with type 2 diabetes and/or impaired glucose tolerance.
 2 Pharmacodynamics
 2 Patients commended dose range, rosigitazone maleate. In all 26 week controlled trials, across the recommended dose range, rosigitazone maleate as monotherapy was associated with increases in total cholesterol, LDL, and HDL and decreases in therefore required in the receiving rosigitazone maleate. Since metformin in form placebo or glyburide controls (Table 9).
 with arcenta end 50 for galitazone dia for galitazone dia for galitazone dia formation of more placement, endoted on the more lactor or use to receiving rosigitazone maleate. Since metformin is form placebo or glyburide controls (Table 9). with rosiglitazone maleate and 55% of metformin-treated patients had their Increases in LDL occurred primarily during the first 1 to 2 months of therapy metformin with rosiglitazone maleate is contraindicated in these patients.

ervation-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) ^b | | 8 | | 21 | |
| (95% CI) | | (-15, 30) | | (-9, 51) | |
| % 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) ^b | | 0.2 | | 0.5 | |
| (95% CI) | | (-0.6, 0.9) | | (-0.2, 1.3) | |
| % of patients with $\geq 0.7\%$ decrease from baseline | 63% | 52% | 54% | 31% | |

^a Change from baseline means are least squares means adjusting fo 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 rosigilitazone maleate and metformin appeared more closely comparable among heavier patients. The median weight gain was 2.8 kg with rosigilitazone and 0.2 kg with metformin [see Warnings and Precautions (5.5)]. Fifty-four percent of patients treated with rosigilitazone and 32% of patients treated with metformin gained ≥ 2 kg, and 33% of patients treated with rosignitazione and 7% of natients treated with metformin gained > 5 kg on trial Adverse events observed in this trial are described in Adverse Reactions (6.1).

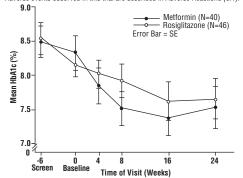


Figure 2. Mean HbA1c Over Time in a 24 Week Trial of Rosiglitazone Maleate and Metformin in Pediatric Patients — Drug-Naïve Subgroup Geriatric Use 8.5

Results of the population pharmacokinetic analysis showed that age does The start of the population point and 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 (\geq 65 years) and younger (< 65 years) patients were observed.

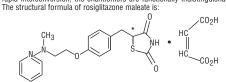
OVERDOSAGE Limited data are available with regard to overdosage in humans. In clinical trials in volunteers, rosiglitazone maleate has been administered at single oral doses of up to 20 mg and was well-tolerated. In the event of an tive treatment should be initiated as dictated

/ the patient's clinical status. DESCRIPTION

Bosiglitazone 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-[[4-[2-(methyl-2-pyridinylamino) ethoxy] phenyl]methyl]-2,4-thiazolidinedione, (Z)-2-butenedioate (1:1 The molecule has a single chiral center and is present as a racemate. Due to ion, the enantiomers are functionally indis



In SFD&C blue #2 (indigo carmine aluminum lake), the 4 mg tablet contains in glycemic response. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action Rosiglitazone, a member of the thiazolidinedione class of antidiabetic agents, service and potent agoins for the peroxisine promerator-activated receptor-gamma (PPARy). In humans, PPAR receptors are found in key target tissues for insulin action such as adipose tissue, skeletal muscle, and liver. Activation of PPARy nuclear receptors regulates the transcription of insulin-responsive genes involved in the control of glucose production, transport, and utilization. In addition, PPARy-responsive genes also participate in the regulation of fatty acid metabolism.

demonstrated in animal models of type 2 diabetes in which hyperplycemia and/or impaired glucose tolerance is a consequence of insulin resistance in target tissues. Rosigilitazone 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 the latest approved by FDA. For current labeling information, please visit https://www.fda.gov/drugsatfda

8.3 Nursing Mothers
 B.4 Pediatric Use
 A Pediatric Use
 <

with rosiglitazone maleate and 55% of metformin-treated patients had their does doubled if FPG > 126 mg/dL. For the overall intent-to-treat population, at week 24, the mean change from baseline Last- **These west 24 FPG and HbA1c Change From Baseline Last- These west 24 FPG and HbA1c Change From Baseline Last- These mean change from Saceline Last- These mean change from Saceline Last- These mean change from Baseline HbA1c > 6.5%** 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.

or alvburide controls

Table 9. Summary of Mean Lipid Changes in 26 Week Placebo-

| ntrolled and 52 Week Glyburide-Controlled Monotherapy Trials | | | | | | | | | |
|--|----------|-----------------------|---|----------------|----------------|-----------------------|--------|--|--|
| | Placebo- | | Glyburide-Controlled Trial Week 26 and Week 52 | | | | | | |
| | Placebo | Placebo Rosiglitazone | | Glybi Titra | uride ition | Rosiglitazone 8 mg | | | |
| | | 4 mg dailya | 8 mg daily ^a | Wk 26 | Wk 52 | Wk 26 | Wk 52 | | |
| ee fatty ids | | | | | | | | | |
| | 207 | 428 | 436 | 181 | 168 | 166 | 145 | | |
| iseline iean) | 18.1 | 17.5 | 17.9 | 26.4 | 26.4 | 26.9 | 26.6 | | |
| Change om seline nean) | +0.2% | -7.8% | -14.7% | -2.4% | -4.7% | -20.8% | -21.5% | | |
|)L | | | | | | | | | |
| | 190 | 400 | 374 | 175 | 160 | 161 | 133 | | |
| iseline iean) | 123.7 | 126.8 | 125.3 | 142.7 | 141.9 | 142.1 | 142.1 | | |
| Change om seline iean) | +4.8% | +14.1% | +18.6% | -0.9% | -0.5% | +11.9% | +12.1% | | |
|)L | | | | | | | | | |
| | 208 | 429 | 436 | 184 | 170 | 170 | 145 | | |
| iseline nean) | 44.1 | 44.4 | 43.0 | 47.2 | 47.7 | 48.4 | 48.3 | | |
| Change | | | | | | | | | |

from baseline +8.0% +11.4% +14.2% +4.3% +8.7% +14.0% +18.5% (mean) a Once daily and twice daily dosing groups were cor

12.3 Pharmacokinetics Maximum plasma concentration (Cmax) 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 indepe dent of dose

| Parameter | 1 mg Fasting | 2 mg Fasting | 8 mg Fasting | 8 mg Fed |
|----------------------|-----------------|-----------------|-----------------|-------------|
| AUC _{0-inf} | 358 | 733 | 2,971 | 2,890 |
| [ng•hr/mL] | (112) | (184) | (730) | (795) |
| C _{max} | 76 | 156 | 598 | 432 |
| [ng/mL] | (13) | (42) | (117) | (92) |
| Half-life | 3.16 | 3.15 | 3.37 | 3.59 |
| [hr] | (0.72) | (0.39) | (0.63) | (0.70) |
| CL/Fa | 3.03 | 2.89 | 2.85 | 2.97 |
| [L/hr] | (0.87) | (0.71) | (0.69) | (0.81) |

Absorption: The absolute bioavailability of rosiglitazone is 99%.

Distribution: The mean (CV%) oral volume of distribution (Vss/F) of Impairment of Fertility: Rosiglitazone had no effects on mating or fertility <u>Distribution:</u> The mean (CV%) oral volume of distribution (Vss/F) of male rats given up to 40 mg/kg/day (approximately 17.6 (30%) liters, based on a population pharmacokinetic analysis. Rosigilitazone is approximately 99.8% bound to plasma proteins. primarily albumin.

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 158 hours.

Population Pharmacokinetics in Patients With Type 2 Diabetes: Population pharmacokinetic analyses from 3 large clinical trials including 642 men and 405 women with type 2 diabetes (aged 35 to 80 years) showed that the pharmacokinetics of rosiglitazone are not influenced by

In monotherapy trials, a greater therapeutic response was observed in 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 the more obese patients, gender differences were less evident. For a given body mass index (BMI), females tend to have a greater patient of the more observed in the more observed in antidiabetic medication(s) were withdrawn and patients entered a 2 to 4 week placebo run-in period prior to randomization. 12.1 Mechanism of Action evident. For a given body mass index (BMI), temales tend to have a greater improves glycemic control by improving insulin sensitivity. Rosiglitazone is a highly selective and potent agoinst for the peroxisome proliferator-activated receptor gamma (PPARy). In humans, PPAR reports are found in key target tissues skeletal muscle and liver. Activation of the dividualized, no dose adjustments are necessary tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the dividualized in the control det trained added to the therapy of patients who were inadequately tor insulin action such as adinose tissue skeletal muscle and liver. Activation of therapy should be individualized, no dose adjustments are necessary tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the trained adding tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the trained adding tor insulin action such as adinose tissue skeletal muscle and liver. Activation of the trained of the activation of the trained of the tra

Hepatic Impairment: Unbound oral clearance of rosiglitazone was significantly lower in patients with moderate to severe liver disease (Child-Pugh Class B/C) one of these trials are summarized in Table 11. $PPAR_{\gamma}$ -responsive genes also participate in the regulation of fatty acid metabolism. The solution is a common feature characterizing the pathogenesis of type 2 diabetes. The antidiabetic activity of rosiglitazone has been on the solution of the solu

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 dosing of rosiglitazone (8 mg once daily) for 14 days did not alter the steady-state pharmacokinetics of digoxin (0.375 mg once daily) 220----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 crease 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) lid not alter the pharmacokinetics of either single oral or intravenous rosigilitazione in healthy volunteers. These results suggest that the on of oral rosigilitazone is not altered in conditions accompanied ases in gastrointestinal pH.

creases in gastr NONCLINICAL TOXICOLOGY

Carcinogenesis, Mutagenesis, Impairment of Fertility <u>Carcinogenesis:</u> 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 River DD-1 mice at doses of 0.4, 1.3, and o migrigoday in the oliet (mignest 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 increas in incidence of adipose hyperplasia in the mouse at doses $\geq 1.5 \text{ mg/kg/da}$ (approximately 2 times human AUC at the maximum recommended hum daily dose). In rats, there was a significant increase in the incidence of benigr any dosy, in rest was a significant measurement of the second se persistent pharmacological overstimulation of adipose tissue.

Peak plasma concentrations are observed about 1 hour after dosing. Administration of rosigilitazone 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 clinically significant; therefore, rosigilitazone maleate may be administered with or without food.

Figure 4. Mean HbA1c Over Time in a 52 Week Glvburide-Controlled Trial **Metabolism:** Rosiglitazone is extensively metabolized with no unchanged drug excreted in the urine. The major routes of metabolism were not drug excreted in the urine. The major routes of metabolism were not drug excreted in the urine. The major routes of metabolism were not drug excreted in the urine. The major routes of metabolism were not drug excreted in the urine. The major routes of metabolism were not drug excreted in the urine. The major routes of metabolism were not drug excreted in the urine of the urine of the maximum drug does, respectively). No such effects were noted at 0.2 mm/kg/day (approximately 3 times human AUC at the maximum drug does). 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 exclicity meting performance of the transformation and the demonstrate that routed the transformation and the days of the demonstrate that routed the transformation and the days of t lypoplycemia was reported in 12.1% of plyburide-treated patients versus Hypoglycemia was reported in 12.1% of glyburide-treated patients versus 0.5% (2 mg twice daily) and 1.6% (4 mg twice daily) of patients treated with rosiglitazone. The improvements in glycemic control were associated with a mean weight gain of 1.75 kg and 2.95 kg for patients treated with 2 mg and 4 mg twice daily of rosiglitazone, respectively, versus 1.9 kg in glyburide-treated patients. In patients treated with rosiglitazone maleate, C-peptide, insulin, pro-insulin, and pro-insulin split products were significantly reduced in a dose-ordered fashion, compared to an increase in the glyburide-treated patients. or pregnancy incidence in females (approximately 68 times human AUC at A Diabetes Outcome Progression Trial (ADOPT) was a multicenter, double (0.6 and 4.6 mg/kg/day; approximately 3 and 15 times human AUC at the maximum recommended human daily dose). In monkeys, rossiglitazone maximum recommended human daily dose, respectively diminished the follicular phase rise in serum estradiol with consequential reduction in the follower at a formation of the safety and efficacy of rosiglitazone maleate, metformin, and glyburde (≤ 3 years) inadequately controlled with diet and exercise. The mean age of

luteinizing hormone surge, lower luteal phase progesterone levels, and amenorrhea. The mechanism for these effects appears to be direct inhibition no known history of cardiovascular disease. The mean baseline FPG and no known history of cardiovascular disease. The mean baseline FPG and HbAtc were 152 mg/dL and 7.4%, respectively. Patients were randomized to receive either rosiglitazone 4 mg once daily, glyburide 2.5 mg once daily, or metformin 500 mg once daily, and doses were titrated to optimal of ovarian ste 13.2 Animal Toxicology and/or Pharmacology 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 glycemic control up to a maximum of 4 mg twice daily for rosiglitazone oral steady-state volume of distribution (Vss/F) were shown to increases with increases in body weight. Over the weight range observed in these analyses (50 to 150 kg), the range of predicted CL/F and Vss/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 served in the primary efficacy outcome at 5 years was 15% in clinical trials trials trials the trials.

Rosiglitazone (4 mg twice daily) was shown to have no clinically relevant effect or the pharmacokinetics of nifedinine and oral contracentives (ethinyl estradiol and

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 adverse events with rosiglitazone, a decrease in the dose of rosiglitazone

inically significant effect on the steady-state pharmacokinetics o cone maleate. No clinically significant reductions in glimepride

osiglitazone maleate produced statistically significant improvements in

FPG (mg/dL) -43a -10a)ifference from % of patients 45% 54% 58% HbA1c (%) 8.9 8.9 8.9 Baseline (mear hange from eline (mean -0 9a acebo (adjust

% of patient with $\geq 0.7\%$ 39% 54% lecrease from

a P < 0.0001 compared to placebo

may be needed when gemfibrozil is introduced [see Drug Interactions (7.1)]. When administered at the same total daily dose, rosiglitazone maleate was Rifampin: Rifampin administration (600 mg once a day), an inducer of generally more referitive in reducing FPG and HbAtc when administered CYP2C8, for 6 days is reported to decrease rosiglitazone AUC by 66%, in divided doses twice daily compared to once daily doses. However, for nistration of rosiglitazone (8 mg) alone [see Drug HbA1c, the difference between the 4 mg once daily and 2 mg twice daily doses was not statistically significant.

<u>Glyburide</u>: 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 2 diabetes. Patients were randomized to treatment with rosiglitazone 2 mg use diabetes and the reating with resting the rest and the rest stabilized to resting the rest and the Solution in the second dose was kept constant.

The median titrated dose of glyburide was 7.5 mg. All treatments resulted AUC and C_{max} were observed after repeat doses of rosiglitazone (8 mg once daily) for 8 days in healthy adult subjects. <u>Metformin:</u> 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 rosiglitazone. <u>Acarbose:</u> Coadministration of acarbose (100 mg three times daily)

therapy.

metformin. Rosiglitazone maleate, administered in either once daily or twice daily dosing regimens, was added to the therapy of patients who were inadequately controlled on a maximum dose (2.5 grams/day) of metformin. In one trial, patients inadequately controlled on 2.5 grams/day of

daily and 8 mg of rosiglitazone once daily, versus patients continued on metformin alone (Table 12).

| | Metformin | Rosiglitazone 4 mg once daily + metformin | Rosiglitazone 8 mg once daily + metformin |
|--|-----------|---|---|
| | N = 113 | N = 116 | N = 110 |
| FPG (mg/dL) | | | |
| Baseline (mean) | 214 | 215 | 220 |
| Change from baseline (mean) | 6 | -33 | -48 |
| Difference from metformin alone (adjusted mean) | - | -40a | -53a |
| % of patients with ≥ 30 mg/dL decrease from baseline | 20% | 45% | 61% |
| HbA1c (%) | | | |
| Baseline (mean) | 8.6 | 8.9 | 8.9 |
| Change from baseline (mean) | 0.5 | -0.6 | -0.8 |
| Difference from metformin alone (adjusted mean) | - | -1.0a | -1.2 ^a |
| % of patients with ≥ 0.7% decrease from baseline | 11% | 45% | 52% |

a P < 0.0001 compared to metformi

In a second 26 week trial, patients with type 2 diabetes inadequately controlled on 2.5 grams/day of metformin who were randomized to receive the combination of rosiglitazone 4 mg twice daily and metformin (N = 105) showed a statistically significant improvement in glycemic control with a 15 mean treatment effect for FPG of -56 mg/dL and a mean treatment effect for HbA1c of -0.8% over metformin alone. The combination of metformin and rosiglitazone maleate resulted in lower levels of FPG and HbA1c than either agent alone.

Patients who were inadequately controlled on a maximum dose (2.5 grams/day) of metformin and who were switched to monotherapy with siglitazone maleate demonstrated loss of glycemic control, as evidenced by increases in FPG and HbA1c. In this group, increases in LDL and VLDI

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 maleate in combination with a sulfonylurea. Rosiglitazone 2 mg, 4 mg, or 8 mg daily, was administered either once daily

with rosiglitazone maleate; however, this effect was less durable over time. sulfonylurea or further up-titration of the sulfonylurea. Table 13 shows The improvement in glycemic control seen with rosiglitazone 4 mg twice daily at week 26 was maintained through week 52 of the trial. pooled data for 8 trials in which rosiglitazone maleate added to sulfonylurea.

Table 13. Glycemic Parameters in 24 to 26 Week Combination Trials of

| Rosiglitazone Ma Twice Daily Divided Dosing (5 Studies) | Sulfonylurea | Rosiglitazone 2 mg twice daily + sulfonylurea | Sulfonylurea | Rosiglitazone 4 mg twice daily + sulfonylurea |
|--|--------------|--|--------------|--|
| | N = 397 | N = 497 | N = 248 | N = 346 |
| FPG (mg/dL) | 1 | | | |
| Baseline (mean) | 204 | 198 | 188 | 187 |
| Change from | 11 | -29 | 8 | -43 |
| baseline (mean) | | 20 | Ŭ | 10 |
| Difference from | - | -42a | _ | -53a |
| sulfonylurea | | | | |
| alone (adjusted | | | | |
| mean) | | | | |
| % of patients | 17% | 49% | 15% | 61% |
| with ≥ 30 mg/dL | | | | |
| decrease from | | | | |
| baseline | | | | |
| HbA1c (%) | | | | |
| Baseline (mean) | 9.4 | 9.5 | 9.3 | 9.6 |
| Change from | 0.2 | -1.0 | 0.0 | -1.6 |
| baseline (mean) | | | | |
| Difference from | - | -1.1a | - | -1.4a |
| sulfonylurea | | | | |
| alone (adjusted | | | | |
| mean) | | | | |
| % of patients | 21% | 60% | 23% | 75% |
| with $\geq 0.7\%$ | | | | |
| decrease from | | | | |
| baseline | | | | |
| Ones Daily | | Rosiglitazone | | Rosiglitazone |
| Once Daily Dosing | | 4 mg once dailv + | | 8 mg once dailv + |
| (3 Trials) | Sulfonvlurea | sulfonylurea | Sulfonvlurea | |
| (o maio) | N = 172 | N = 172 | N = 173 | N = 176 |
| FPG (mg/dL) | N = 172 | 11 - 172 | 11 - 175 | N = 170 |
| | 198 | 206 | 188 | 192 |
| Baseline (mean) | | | | |
| Change from | 17 | -25 | 17 | -43 |
| baseline (mean) | | 174 | | |
| Difference from | | -47a | - | -66a |
| sulfonylurea alone (adjusted | | | | |
| mean) | | | | |
| % of patients | 17% | 48% | 19% | 55% |
| with \geq 30 mg/dL | 17/0 | 40 /0 | 1370 | 5570 |
| decrease from | | | | |
| baseline | | | | |
| HbA1c (%) | i | | | |
| Baseline (mean) | 8.6 | 8.8 | 8.9 | 8.9 |
| Change from | 0.0 | -0.5 | 0.1 | -1.2 |
| baseline (mean) | 0.4 | -0.5 | 0.1 | -1.2 |
| Difference from | _ | -0.9a | _ | -1.4a |
| sulfonvlurea | _ | -0.94 | - | -1.44 |
| alone (adjusted | | | | |
| | 1 | | 1 | 1 |
| | | | | |
| mean) | 11% | 36% | 20% | 68% |
| mean) % of patients | 11% | 36% | 20% | 68% |
| mean) % of patients with $\ge 0.7\%$ decrease from | 11% | 36% | 20% | 68% |

Cidfugle 202 Cide 2 and **transport of the set of the set** combination therapy completed the 2 years of therapy while only 51% completed on glipizide monotherapy. The effect of combination therapy <u>Combination With Metformin:</u> A total of 670 patients with type 2 diabetes on FPG and HbA1c was durable over the 2 year trial period, with patient compared to no change on the glipizide arm.

 controlled on a maximum dose (2.5 grams/day) or meuoritim.
 In one trial, patients inadequately controlled on 2.5 grams/day of metformin (mean baseline FPG 216 mg/L and mean baseline HbAtc 8.8%) were randomized to receive 4 mg or rosiglitazone once daily, 8 mg of rosiglitazone once daily, or placebo in addition to metformin. A statistically significant improvement in FPG and HbAtc was observed in patients treated with the combinations of metformin ad 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin (2 g/day). A statistically significant improvement in FPG and HbAtc was observed in patients treated with the combinations of metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the formation of sulforylurea plus formations of sulforylurea plus metformin and 4 mg of rosiglitazone once daily versus patients continued on the of rosiglitazone and 8 mg of rosiglitazone versus patients continued on sulfonvlurea plus metformin as shown in Table 14

Table 14. Glycemic Parameters in a 26 Week Combination Trial of

| Rosiglitazone Maleate Plus Sulfonylurea and Metformin | | | | |
|--|-----------------------------|--|--|--|
| | Sulfonylurea + metformin | Rosiglitazone 2 mg twice daily + sulfonylurea + metformin | Rosiglitazone 4 mg twice daily + sulfonylurea + metformin | |
| | N = 273 | N = 276 | N = 277 | |
| FPG (mg/dL) | | | | |
| Baseline (mean) | 189 | 190 | 192 | |
| Change from baseline (mean) | 14 | -19 | -40 | |
| Difference from sulfonylurea plus metformin (adjusted mean) | - | -30a | -52a | |
| % of patients with ≥ 30 mg/dL decrease from baseline | 16% | 46% | 62% | |
| HbA1c (%) | | | | |
| Baseline (mean) | 8.7 | 8.6 | 8.7 | |
| Change from baseline (mean) | 0.2 | -0.4 | -0.9 | |
| Difference from sulfonylurea plus metformin (adjusted mean) | - | -0.6a | -1.1a | |
| % of patients with ≥ 0.7% decrease from baseline | 16% | 39% | 63% | |

a P < 0.0001 compared to placebo REFERENCES

ation Briefing Document. Joint meeting of od and Drug Admir the Endocrinologic and Metabolic Drugs and Drug Safety and Risk Management Advisory Committees. July 13-14, 2010.

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- 2004.75.157-162

HOW SUPPLIED/STORAGE AND HANDLING

Each round, standard-convex, coated tablet contains rosiglitazone as the maleate as follows: $2\mbox{ mg}$ – pink tablets, debossed with the number "93" on one side and "7322" on the other. They are available in bottles of 60.

4~mg – orange tablets, debossed with the number "93" on one side and "7323" on the other. They are available in bottles of 30, 100, and 500.

 $8\,$ mg - red-brown tablets, debossed with the number "93" on one side and "7324" on the other. They are available in bottles of 30, 100, and 500. 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).

PATIENT COUNSELING INFORMATION See Medication Guide

17.1 Patient Advice

There are multiple medications available to treat type 2 diabetes. The benefits and risks of each available diabetes medication should be taken into account when choosing a particular diabetes medication for a given patient.

Patients should be informed of the risks and benefits of rosiglitazone maleate. Rosiglitazone maleate should only be taken by adults with type 2 diabetes who are already taking rosiglitazone maleate, or who are not already taking rosiglitazone maleate and are unable to achieve adequate glycemic control on other diabetes medications, and, in consultation with heir healthcare provider, have decided not to take pioglitazone (ACTOS) for medical reasons. Inform patients that they must be enrolled in the AVANDIA-Rosiglitazone Medicines Access Program in order to receive rosiglitazone maleate.

- Patients should be informed of the following:
- · Rosiglitazone maleate is not recommended for patients with symptomatic
- Results of a set of clinical trials suggest that treatment with rosiglitazone maleate is associated with an increased risk for myocardial infarction (heart attack), especially in patients taking insulin. Clinical trials have not shown any difference between rosiglitazone maleate and comparator medications in overall mortality or CV-related mortality.
- · Rosiglitazone maleate is not recommended for patients who are taking
- · Management of type 2 diabetes should include diet control. Caloric restriction, weight loss, and exercise are essential for the proper treatment of the diabetic patient because they help improve insulin sensitivity. This is important not only in the primary treatment of type 2 diabetes, but in methodism to efficiency data the efficiency data the efficiency of the e maintaining the efficacy of drug therapy.
- · It is important to adhere to dietary instructions and to regularly have blood glucose and glycosylated hemoglobin tested. It can take 2 weeks to see a reduction in blood glucose and 2 to 3 months to see the full effect of rosiglitazone maleate

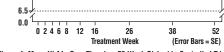
- result in ovulation in some premenopausal anovulatory women. As a result, these patients may be at an increased risk for pregnancy while taking rosiglitazone maleate. Thus, adequate contraception in premenopausal women should be recommended. This possible effect has not been specifically investigated in clinical trials so the frequency of this occurrence is not known.

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> TEVA PHARMACEUTICALS USA Sellersville, PA 18960

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This label may not be the latest approved by FDA.

For current labeling information, please visit https://www.fda.gov/drugsatfda

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 breastfeed. 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 a woman) leading to pregnancy. Ovulation 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.

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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
 - 0 unusual or unexplained tiredness
 - loss of appetite
 - dark urine
 - yellowing of your skin or the whites of 0 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).
- blood sugar Low (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

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

sometimes Medicines are prescribed purposes other than those listed in a tor Medication Guide. Do not use rosiglitazone maleate tablets for a condition for which thev 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, polyethylene microcrystalline cellulose, 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.

make sure that the Always check to 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 2° mg – pmk was "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.

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Manufactured In Israel By: TEVA PHARMACEUTICAL IND. LTD. Jerusalem, 91010, Israel Manufactured For: **TEVA PHARMACEUTICALS USA** Sellersville, PA 18960

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For current labeling information, please visit https://www.fda.gov/drugsatfda

MEDICATION GUIDE Rosiglitazone Maleate Tablets

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- 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?

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- 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[®])

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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 breastfeed. 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
 Ovulation (release of egg from an ovary in 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.

rosiglitazone maleate tablets? 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 0 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 eve 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 (hypoglycemia). blood sugar 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

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?

effects The most common side 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 sometimes are 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, polyethylene cellulose, microcrystalline 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.

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TEVA PHARMACEUTICALS USA Sellersville, PA 18960

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