

Prior Authorization DRUG Guidelines

AVANDARYL (Rosiglitazone and glimepiride)

Effective Date: 1/28/14

Date Developed: 1/28/14 by Catherine Sanders, MD

Last Approval Date: 1/26/16, 1/24/17, 1/23/18, 1/22/19, 2/18/20,

2/2/21, 2/1/22, 1/31/23, 2/13/24, ARCHIVED 1/2/25

Note: Rosiglitazone has been discontinued in the United States

Avandaryl is a combination therapy for treatment of Type 2 diabetes mellitus. Rosiglitazone is a thiazolidinedione antidiabetic agent that lowers blood glucose by improving target cell response to insulin, without increasing pancreatic insulin secretion. It has a mechanism of action that is dependent on the presence of insulin for activity. Glimepiride stimulates insulin release from the pancreatic beta cells; reduces glucose output from the liver; insulin sensitivity is increased at peripheral target sites.

Authorization Criteria: adjunct to diet and exercise in adults with type 2 diabetes mellitus (noninsulin dependent, NIDDM) in whom dual therapy is appropriate, especially if other therapies are ineffective or associated with intolerable side effects (e.g. metformin, GLP-1, DPP-4, AGI, insulin)

Pre-Authorization Criteria:

Avandaryl is covered for the management of type 2 diabetes mellitus (noninsulin dependent) as an adjunct to diet and exercise where dual rosiglitazone and glimepiride therapy is appropriate.

- 1) In following the American Association of Clinical Endocrinologists Comprehensive Diabetes Management Algorithm 2013 Consensus Statement, thiazolidinediones such as rosiblitazone are to be used only if other first, second- and third-line therapies are ineffective or associated with intolerable side effects. All of the following medications/classes of medications are to be tried prior to Avandaryl or other medications containing a thiazolidinedione are covered:
- 2) Metformin
- 3) Glucagon-like peptide-1 (GLP-1)
- 4) Dipeptidyl-peptidase-4 (DPP-4)
- 5) Alpha-glucosidase inhibitor (AGI)
- 6) Insulin (in normal weight patients)
- 7) Therapy is not to be initiated in patients with active liver disease or ALT >2.5 times the upper limit of normal.
- 8) Contraindicated in patients with NYHA Class III-IV CHF and not recommended in patients with symptomatic CHF.
- 9) Not to be used concomitantly with insulin due to an increased risk of edema, congestive heart failure, and myocardial ischemic events.



Prescribing and Access Restrictions:

As a requirement of the REMS program, the prescribing and dispensing of any rosiglitazone-containing medication in the U.S. requires physician and patient enrollment in the Avandia-Rosiglitazone Medicines Access Program™. Complete program details are available at www.avandia.com or by calling the program Coordinating Center at 800-282-6342.

Medication Guide:

An FDA-approved patient medication guide, which is available with the product information and at http://www.fda.gov/downloads/Drugs/DrugSafety/UCM143421.pdf, must be dispensed with this medication.

Dosing: Adult:

Type 2 diabetes mellitus: Oral: Initial: Rosiglitazone 4 mg and glimepiride 1 mg once daily or rosiglitazone 4 mg and glimepiride 2 mg once daily (for patients previously treated with sulfonylurea or thiazolidinedione monotherapy)

Patients switching from combination rosiglitazone and glimepiride as separate tablets: Use current dose. Titration:

Dose adjustment in patients previously on sulfonylurea monotherapy: May take 2 weeks to observe decreased blood glucose and 2-3 months to see full effects of rosiglitazone component. If not adequately controlled after 8-12 weeks, increase daily dose of rosiglitazone component. Dose adjustment in patients previously on thiazolidinedione monotherapy: If not adequately controlled after 1-2 weeks, increase daily dose of glimepiride component in ≤2 mg increments in 1−2-week intervals.

Maximum dose: Rosiglitazone 8 mg and glimepiride 4 mg once daily

Dosing: Pediatric:

Pediatric dosing is currently unavailable or not applicable for this drug.

Dosing: Geriatric:

Rosiglitazone 4 mg and glimepiride 1 mg once daily. Carefully titrate dose.

Dosing: Renal Impairment:

Dose conservatively to avoid hypoglycemia.

Dosing: Hepatic Impairment:

No dosage adjustment provided in manufacturer's labeling. Therapy should not be initiated if the patient exhibits symptoms of active liver disease or increased transaminases (ALT >2.5 times the upper limit of normal) at baseline since clearance is significantly lower in hepatic impairment. Discontinue if ALT >3 times ULN or jaundice occurs.

Dosage Forms: U.S.:

Excipient information presented when available (limited, particularly for generics); consult specific product labeling.

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Tablet:

Avandaryl® 4 mg/1 mg: Rosiglitazone maleate 4 mg and glimepiride 1 mg Avandaryl® 4 mg/2 mg: Rosiglitazone maleate 4 mg and glimepiride 2 mg Avandaryl® 4 mg/4 mg: Rosiglitazone maleate 4 mg and glimepiride 4 mg Avandaryl® 8 mg/2 mg: Rosiglitazone maleate 8 mg and glimepiride 2 mg Avandaryl® 8 mg/4 mg: Rosiglitazone maleate 8 mg and glimepiride 4 mg

Generic Equivalent Available: U.S.-No

Administration:

Should be administered with the first meal of the day.

Adverse Reactions

Edema, hypertension, headache, hypoglycemia, nasopharyngitis
Other Serious Less Common Reactions: CHF, MI, angina, pulmonary edema, pleural effusion,
hepatotoxicity, diabetic macular edema, anaphylaxis, angioedema, leukopenia, agranulocytosis,
thrombocytopenia, thrombocytopenic purpura, hemolytic anemia, aplastic anemia, pancytopenia,
hypersensitivity vasculitis, photosensitivity, Stevens-Johnson syndrome, porphyria, disulfiram-like
reaction, hyponatremia, SIADH, fractures.

U.S. BOXED WARNING:

Thiazolidinediones cause or exacerbate CHF; observe patients closely after treatment initiation or dose increase for signs and/or symptoms including excessive, rapid weight gain, dyspnea, and/or edema; manage CHF based on current care standards if signs and/or symptoms develop and consider discontinuation or dose reduction; contraindicated in patients with NYHA Class III-IV CHF and not recommended in patients with symptomatic CHF.

Meta-analysis of 52 studies showed statistically significant increased risk of myocardial infarction; three other studies showed statistically non-significant increased risk of myocardial infarction and statistically non-significant decreased risk of death; no studies directly comparing cardiovascular risk with pioglitazone, but separate placebo-controlled study of pioglitazone did not show increased risk of myocardial infarction or death.

References:

- 1. American Diabetes Association, "Standards of Medical Care in Diabetes -- 2013," *Diabetes Care*, 2013, 36(Suppl 1):11-66. [PubMed 23264422]
- Gerstein HC, Yusuf S, Bosch J, et al, "Effect Of Rosiglitazone On The Frequency Of Diabetes In Patients With Impaired Glucose Tolerance or Impaired Fasting Glucose: A Randomized Controlled Trial. DREAM (Diabetes REduction Assessment with ramipril and rosiglitazone Medication)Trial Investigators," Lancet, 2006,368(9541):2096-105. [PubMed 16997664]
- 3. Kahn SE, Haffner SM, Heise MA, et al, "Glycemic Durability of Rosiglitazone, Metformin, or Glyburide Monotherapy," *N Engl J Med*, 2006:355(23):2427-43. [PubMed 17145742]
- 4. Lago RM, Singh PP, and Nesto RW, "Congestive Heart Failure and Cardiovascular Death in Patients With Prediabetes and Type 2 Diabetes Given Thiazolidinediones: A Meta-Analysis of Randomized Clinical Trials," *Lancet*, 2007, 370(9593):1129-36. [PubMed 17905165]



- Nissen SE, Wolski K, "Effects Of Rosiglitazone On The Risk of Myocardial Infarction and Death From Cardiovascular Causes," N Engl J Med, 2007. Available at http://content.nejm.org/cgi/content/full/NEJMoa07276117517853
- 6. Qaseem A, Humphrey LL, Sweet DE, et al, "Oral Pharmacologic Treatment of Type 2 Diabetes Mellitus: A Clinical Practice Guideline from the American College of Physicians," *Ann Intern Med*, 2012, 156(3):218-31. [PubMed 22312141]
- 7. Singh S, Loke YK, and Furberg CD, "Long-Term Risk of Cardiovascular Events With Rosiglitazone," *JAMA*, 2007, 298(10):1189-95. [PubMed 17848653]
- 8. www.uptodate.com: Rosiglitazone and glimepiride: Drug Information
- 9. www.epocrates.com: Avandaryl Drug information

Revision History:

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1/24/17	No	Catherine Sanders, MD; Robert Sterling, MD	Annual review
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