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

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 rosiglitazone 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 following medications/classes of medications are to be tried prior to Avandaryl or other medications containing a thiazolidinedione are covered:
   - Metformin
   - Glucagon-like peptide-1 (GLP-1)
   - Dipeptidyl-peptidase-4 (DPP-4)
   - Alpha-glucosidase inhibitor (AGI)
   - Insulin (in normal weight patients)

2) Therapy is not to be initiated in patients with active liver disease or ALT >2.5 times the upper limit of normal.

3) Contraindicated in patients with NYHA Class III-IV CHF and not recommended in patients with symptomatic CHF.
4) 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:**

**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.
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:


8. www.uptodate.com: Rosiglitazone and glimepiride: Drug Information


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