

Specialty Guideline Management

sildenafil-Liqrev-Revatio

Products Referenced by this Document

Drugs that are listed in the following table include both brand and generic and all dosage forms and strengths unless otherwise stated. Over-the-counter (OTC) products are not included unless otherwise stated.

Brand Name	Generic Name
Revatio	sildenafil
Liqrev	sildenafil

Indications

The indications below including FDA-approved indications and compendial uses are considered a covered benefit provided that all the approval criteria are met and the member has no exclusions to the prescribed therapy.

FDA-Approved Indications¹⁻⁴

- Revatio/Liqrev/sildenafil is indicated for the treatment of pulmonary arterial hypertension (PAH) (World Health Organization [WHO] Group 1) in adults to improve exercise ability and delay clinical worsening.
- Revatio/sildenafil is indicated in pediatric patients 1 to 17 years old for the treatment of pulmonary arterial hypertension (PAH) (WHO Group I) to improve exercise ability and, in pediatric patients too young to perform standardized exercise testing, pulmonary hemodynamics thought to underly improvements in exercise.

Compendial Uses

- Secondary Raynaud's phenomenon^{13,14}
- PAH (WHO Group I) in pediatric members less than 1 year of age¹²

All other indications are considered experimental/investigational and not medically necessary.

Prescriber Specialties

This medication must be prescribed by or in consultation with a pulmonologist or cardiologist for the diagnosis of pulmonary arterial hypertension (PAH).

Coverage Criteria

Pulmonary Arterial Hypertension (PAH)^{1-4,6,9,12,22}

Authorization of 12 months may be granted for treatment of PAH when ALL of the following criteria are met:

- Member has PAH defined as WHO Group 1 class of pulmonary hypertension (refer to Appendix).
- PAH was confirmed by either criterion (i) or criterion (ii) below:
 - Pretreatment right heart catheterization with all of the following results:
 - Mean pulmonary arterial pressure (mPAP) > 20 mmHg
 - Pulmonary capillary wedge pressure (PCWP) ≤ 15 mmHg
 - Pulmonary vascular resistance (PVR) ≥ 3 Wood units in adult members or pulmonary vascular resistance index (PVRI) ≥ 3 Wood units x m2 in pediatric members
 - For infants less than one year of age, PAH was confirmed by Doppler echocardiogram if right heart catheterization cannot be performed.

Secondary Raynaud's Phenomenon¹³⁻¹⁸

Authorization of 12 months may be granted for treatment of secondary Raynaud's phenomenon when the member has had an inadequate response to one of the following medications:

- Calcium channel blockers
- Angiotensin II receptor blockers
- Selective serotonin reuptake inhibitors
- Alpha blockers
- Angiotensin-converting enzyme inhibitors
- Topical nitrates

Continuation of Therapy

Authorization of 12 months may be granted for members with an indication listed in the coverage criteria section who are currently receiving the requested medication through a paid pharmacy or medical

benefit, and who are experiencing benefit from therapy as evidenced by disease stability or disease improvement.

Appendix

WHO Classification of Pulmonary Hypertension (PH)^{21,22}

- Pulmonary arterial hypertension (PAH)
 - Idiopathic PAH
 - Heritable PAH
 - Drug- and toxin-induced PAH
 - PAH associated with:
 - Connective tissue disease
 - Human immunodeficiency virus (HIV) infection
 - Portal hypertension
 - Congenital heart disease
 - Schistosomiasis
 - PAH long-term responders to calcium channel blockers
 - PAH with overt features of venous/capillaries (pulmonary veno-occlusive disease [PVOD]/pulmonary capillary hemangiomatosis [PCH]) involvement
 - Persistent PH of the newborn syndrome
- PH due to left heart disease
 - PH due to heart failure with preserved left ventricular ejection fraction (LVEF)
 - PH due to heart failure with reduced LVEF
 - Valvular heart disease
 - Congenital/acquired cardiovascular conditions leading to post-capillary PH
- PH due to lung diseases and/or hypoxia
 - Obstructive lung disease
 - Restrictive lung disease
 - Other lung disease with mixed restrictive/obstructive pattern
 - Hypoxia without lung disease
 - Developmental lung disorders
- PH due to pulmonary artery obstructions
 - Chronic thromboembolic PH
 - Other pulmonary artery obstructions
 - Sarcoma (high or intermediate grade) or angiosarcoma
 - Other malignant tumors
 - Renal carcinoma
 - Uterine carcinoma
 - Germ cell tumors of the testis

- Other tumors
- Non-malignant tumors
 - Uterine leiomyoma
- Arteritis without connective tissue disease
- Congenital pulmonary artery stenosis
- Parasites
 - Hydatidosis
- PH with unclear and/or multifactorial mechanisms
 - Hematologic disorders: Chronic hemolytic anemia, myeloproliferative disorders
 - Systemic and metabolic disorders: Pulmonary Langerhans cell histiocytosis, Gaucher disease, glycogen storage disease, neurofibromatosis, sarcoidosis
 - Others: Chronic renal failure with or without hemodialysis, fibrosing mediastinitis
 - Complex congenital heart disease

References

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