

Reference Number: MDN.CP.PHAR.197 Effective Date: 04.01.22 Last Review Date: 9.13.22 Line of Business: Meridian IL Medicaid

Coding Implications Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Sildenafil (Revatio[®]) is a phosphodiesterase-5 inhibitor.

FDA Approved Indication(s)

Revatio 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. The delay in clinical worsening was demonstrated when Revatio was added to background epoprostenol therapy.

Studies establishing effectiveness were short-term (12 to 16 weeks), and included predominately patients with New York Heart Association (NYHA) Functional Class II-III symptoms and idiopathic etiology (71%) or associated with connective tissue disease (25%).

Limitation(s) of use: Adding sildenafil to bosentan therapy does not result in any beneficial effect on exercise capacity.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that sildenafil is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Pulmonary Arterial Hypertension (must meet all):
 - 1. Diagnosis of PAH;
 - 2. Prescribed by or in consultation with a cardiologist or pulmonologist;
 - 3. Failure of a calcium channel blocker (*see Appendix B*), unless member meets one of the following (a or b):
 - a. Inadequate response or contraindication to acute vasodilator testing;
 - b. Contraindication or clinically significant adverse effects to calcium channel blockers are experienced;
 - 4. Request is for sildenafil 20mg tablet

*Prior authorization may be required for Revatio 10mg/mL oral susp, sildenafil 20mg tablet

- 5. If request is for Revatio® 10mg/mL oral susp, member must be unable to ingest a solid dosage form by meeting a, b or c
 - a. Documentation why member cannot take solid dosage form (age, g-tube, etc)
 - b. Oral-motor difficulties
 - c. Dysphagia
 - *Prior authorization may be required for Revatio 10mg/mL oral susp, sildenafil 20mg tablet
- 6. If request is for brand Revatio® 10mg/12.5mL vial, brand Revatio® 20mg tablet, sildenafil 10mg/12.5mL vial, or sildenafil 10mg/mL oral susp there must be evidence of failure of one of the PDL drugs, used for ≥ 3 consecutive months, unless contraindicated or clinically significant adverse effects are experienced brand
 - a. Revatio® 10mg/mL oral susp (unable to ingest a solid dosage form due to i, ii, or iii)
 - i. Documentation why member cannot take solid dosage form (age, g-tube, etc)
 - ii. Oral-motor difficulties
 - iii. Dysphagia
 - b. sildenafil 20mg tablet;

**Prior authorization may be required for Revatio 10mg/mL oral susp, sildenafil 20mg tablet* 7. Dose does not exceed 60 mg per day (oral formulations) or 30 mg per day

(intravenous formulations) in divided doses.

Approval duration: 6 months

B. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Pulmonary Arterial Hypertension (must meet all):

- 1. Currently receiving medication via Centene benefit or member has previously met all initial approval criteria;
- 2. Member is responding positively to therapy; *Prior authorization may be required for Revatio 10mg/mL oral susp, sildenafil 20mg tablet
- 3. If request is for a dose increase, new dose does not exceed 60 mg per day (oral formulations) or 30 mg per day (intravenous formulations) in divided doses. **Approval duration: 12 months**

B. Other diagnoses/indications (must meet 1 or 2):

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.PMN.53 for Medicaid, or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym KeyFC: functional classFDA: Food and Drug AdministrationNYHA: New York Heart Association

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose		
nifedipine (Adalat [®] CC, Afeditab [®]	60 mg PO QD; may	240 mg/day		
CR, Procardia [®] , Procardia XL [®])	increase to 120 to 240			
	mg/day			
diltiazem (Dilacor XR [®] , Dilt-XR [®] ,	720 to 960 mg PO QD	960 mg/day		
Cardizem [®] CD, Cartia XT [®] , Tiazac [®] ,				
Taztia XT [®] , Cardizem [®] LA, Matzim [®]				
LA)				
amlodipine (Norvasc [®])	20 to 30 mg PO QD	30 mg/day		

Therapeutic alternatives are listed as Brand name[®] (generic) when the drug is available by brand name only and generic (Brand name[®]) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - Use with organic nitrates or riociguat
 - History of hypersensitivity reaction to sildenafil or any component of the tablet, injection, or oral suspension
- Boxed warning(s): none reported

Appendix D: Pulmonary Hypertension: WHO Classification

- Group 1: PAH (pulmonary arterial hypertension)
- Group 2: PH due to left heart disease
- Group 3: PH due to lung disease and/or hypoxemia
- Group 4: CTEPH (chronic thromboembolic pulmonary hypertension)
- Group 5: PH due to unclear multifactorial mechanisms

Appendix E: Pulmonary	Hyportonsion	M/H/M/VHA	Eunctional ($U_{ACCAC}(FC)$
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Treatment Approach*	FC	Status at Rest	Tolerance of Physical Activity (PA)	PA Limitations	Heart Failure
Monitoring for progression of PH and treatment of co- existing conditions	Ι	Comfortable at rest	No limitation	Ordinary PA does not cause undue dyspnea or fatigue, chest pain, or near syncope.	
Advanced treatment of PH with PH- targeted therapy	II	Comfortable at rest	Slight limitation	Ordinary PA causes undue dyspnea or fatigue, chest pain, or near syncope.	

Treatment Approach*	FC	Status at Rest	Tolerance of Physical Activity (PA)	PA Limitations	Heart Failure
- see Appendix F**	III	Comfortable at rest	Marked limitation	Less than ordinary PA causes undue dyspnea or fatigue, chest pain, or near syncope.	
	IV	Dyspnea or fatigue may be present at rest	Inability to carry out any PA without symptoms	Discomfort is increased by any PA.	Signs of right heart failure

*PH supportive measures may include diuretics, oxygen therapy, anticoagulation, digoxin, exercise, pneumococcal vaccination. **Advanced treatment options also include calcium channel blockers.

Mechanism of Action	Drug Class	Drug Subclass	Drug	Brand/Generic Formulations
	Prostacyclin* pathway agonist	Prostacyclin	Epoprostenol	Veletri (IV) Flolan (IV) Flolan generic (IV)
	*Member of the prostanoid class of fatty acid derivatives.	Synthetic prostacyclin analog	Treprostinil	Orenitram (oral tablet) Remodulin (IV) Tyvaso (inhalation)
			Iloprost	Ventavis (inhalation)
Reduction of pulmonary arterial		Non-prostanoid prostacyclin receptor (IP receptor) agonist	Selexipag	Uptravi (oral tablet)
pressure through	Endothelin receptor	Selective receptor antagonist	Ambrisentan	Letairis (oral tablet)
vasodilation	antagonist (ETRA)	Nonselective dual action receptor	Bosentan	Tracleer (oral tablet)
		antagonist	Macitentan	Opsumit (oral tablet)
	Nitric oxide- cyclic guanosine	Phosphodiesterase type 5 (PDE5) inhibitor	Sildenafil	Revatio (IV, oral tablet, oral suspension)
	monophosphate enhancer		Tadalafil	Adcirca (oral tablet)
		Guanylate cyclase stimulant (sGC)	Riociguat	Adempas (oral tablet)

Appendix F: Pulmonary Hypertension: Targeted Therapies

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Indication	Dosing Regimen Maximum Dose				
PAH	Tablet and oral suspension: 5 mg or 20	Tablet/oral suspension: 60			
	mg PO TID, 4-6 hours apart	mg/day			
	Injection: 2.5 mg or 10 mg TID as	Injection: 30 mg/day			
	an IV bolus				

V. Dosage and Administration

VI. Product Availability

- Tablet: 20 mg
- Oral suspension: 10 mg/mL
- Single-use vial: 10 mg/12.5 mL

VII. References

- 1. Revatio Prescribing Information. New York, NY: Pfizer Inc.; February 2018. Available at: <u>https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/021845s018lbl.pdf.</u> Accessed November 9, 2021.
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- 3. Klinger JR, Elliott CG, Levine DJ, et al. Therapy for pulmonary arterial hypertension in adults: update of the CHEST guideline and expert panel report. *CHEST*. 2019;155(3):565-586. doi: <u>https://doi.org/10.1016/j.chest.2018.11.030</u>.
- 4. Abman SH, Hansmann G, Archer SL, et al. Pediatric pulmonary hypertension: Guidelines from the American Heart Association and American Thoracic Society. *Circulation*. 2015 Nov 24; 132(21): 2037-99.
- 5. Kim NH, Delcroix M, Jenkins DP, et al. Chronic thromboembolic pulmonary hypertension. *J Am Coll Cardiol.* 2013; 62(25): Suppl D92-99.
- 6. Galiè N, Humbert M, Vachiary JL, et al. 2015 ESC/ERS Guidelines for the diagnosis and treatment of Pulmonary Hypertension. *European Heart Journal*. Doi:10.1093/eurheartj/ehv317.
- 7. Simmonneau G, Montani D, Celermajer D, et al. Haemodynamic definitions and updated clinical classification of pulmonary hypertension. *Eur Respir J*. 2019; 53:1801913.
- 8. Sitbon O, Humber M, Jais X, et al. Long-term response to calcium channel blockers in idiopathic pulmonary arterial hypertension. *Circulation*. 2005;111(23);3105;11.
- 9. Yaghi S, Novikov A, Trandafirescu T. Clinical update on pulmonary hypertension. *J Investig Med.* 2020; 0:1-7. doi:10.1136/jim-2020-001291.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J3490	Unclassified drugs
J8499	Prescription drug, oral, non-chemotherapeutic, Not Otherwise Specified

Reviews, Revisions, and Approvals		P&T Approval Date
Policy created, adapted from CP.PHAR.197	04.01.22	04.22
Updated logo; Initial and Continuing approval criteria clarified	9.13.22	

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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Note:

For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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