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#### **RX.PA.029.MPC** Pulmonary Arterial Hypertension (PAH) Products

The purpose of this policy is to define the prior authorization process for pulmonary arterial hypertension products.

#### DEFINITIONS

**Chronic thromboembolic pulmonary hypertension (CTEPH)** – a mean pulmonary artery pressure greater than 25 mm Hg that persists 6 months after pulmonary embolism is diagnosed.

**Pulmonary arterial hypertension (PAH) –** PAH is a syndrome resulting from restricted flow through the pulmonary arterial circulation resulting in increased pulmonary vascular resistance and subsequent right heart failure. The diagnosis of PAH requires confirmation with a complete right heart catheterization. The hemodynamic definition of PAH includes a mean pulmonary artery pressure (mPAP) greater than 25 mm Hg in the setting of a normal pulmonary capillary wedge pressure (PCWP) of 15 mm Hg or less with a pulmonary vascular resistance (PVR) greater than 3 Wood units.

**Pulmonary endarterectomy (PEA)** – surgical procedure to remove obstructive hardened, thromboembolic materials from the pulmonary arteries to improve hemodynamics in patients CTEPH.

**Pulmonary Hypertension Specialist** – a cardiologist or pulmonologist who is a member of the Pulmonary Hypertension Association

**Pulmonary Vascular Resistance (PVR) –** PVR (wood units) = (mPAP – PCWP)/ Cardiac Output. PVR (wood units) = PVR (dynes-sec-cm-5)/80

#### WHO Etiologic Classification of Pulmonary Hypertension

Group 1	Pulmonary arterial hypertension
Group 2	Pulmonary hypertension with left heart disease
Group 3	Pulmonary hypertension associated with lung disease and/or hypoxemia
Group 4	Pulmonary hypertension due to chronic thrombotic and/or embolic disease
Group 5	Miscellaneous

#### WHO Functional Classification of Pulmonary Hypertension

Class I	Members with no symptoms and for whom ordinary physical activity does not cause
	dyspnea or fatigue, chest pain or near syncope.



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Class II	Members who are comfortable at rest but who have symptoms** with ordinary	
	physical activity.	
Class III	Members who are comfortable at rest but have symptoms** with less-than-ordinary	
	effort.	
Class IV	Members who have symptoms** at rest	

\*\*Key symptoms of PH include dyspnea or fatigue, chest pain, or near syncope (fainting)

PREFERRED – PA REQUIRED	NON-PREFERRED – PA REQUIRED				
Phosphodiesterase-5 (PDE-5) Inhibitors					
Adcirca (tadalafil) tablets [Functional class II, III, or IV]	Revatio (sildenafil)- tablets, oral susp [Functional class II, III, or IV]				
Sildenafil (generic for Revatio) tablets [Functional class II, III, or IV]					
Prostacyclin Analogs					
Epoprostenol (generic for Flolan) [Functional class III or IV]	Orenitram (treprostinil) [Functional class II or III]				
Remodulin (treprostinil) [Functional class II, III, or IV]	Uptravi (selexipag) [Functional class II or III]				
Tyvaso (treprostinil) [Functional class III]	Flolan (epoprostenol) [Functional class III or IV]				
Epoprostenol (generic for Veletri) [Functional class III or IV]	Veletri (epoprostenol) [Functional class III or IV]				
Ventavis (iloprost) inh soln [Functional class III or IV]					
Endothelial-Rece	eptor Antagonists				
Letairis (ambrisentan) tablets [Functional class II, III, or IV]					
Opsumit (macitentan) tablets [Functional class II or III]					
Tracleer (bosentan) tablets [Functional class II, III, or IV]					
Soluble Guanylate Cyclase Stimulators					
Adempas (riociguat) tablets [Functional class II or III]					

## PROCEDURE

## A. Initial Authorization Criteria:

Must meet all of the criteria listed under the respective diagnosis:

## 1. Pulmonary Arterial Hypertension (PAH):

- Patient must be age 18 years or older
- Must have a diagnosis of PAH classified as WHO Group 1
- Must be prescribed by or in consultation with a cardiologist of pulmonologist experienced in the diagnosis and treatment of PAH
- Documentation of baseline 6-minute walk test
- Documentation of right catheterization with mean pulmonary artery pressure (mPAP) > 25 mmHg



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- Must not be used concomitantly with organic nitrates (e.g., isosorbide mononitrate, isosorbide dinitrate, nitroglycerin)
- Must have appropriate New York Heart Association (NYHA) or WHO functional class symptoms for the requested drug listed in the table above
- For combination therapy (2+ PAH agents)
  - Remodulin (treprostinil) and Flolan (epoprostenol) combination is allowed in patients who require transition from Flolan. Combination therapy for the down-titration of Flolan can be up to 14 days.
  - Adempas must NOT be used in combination with PDE-5 inhibitors [e.g., Adcirca (tadalafil), Revatio (sildenafil), sildenafil (generic for Revatio)]
  - Must have documentation of an inadequate clinical response to monotherapy, defined as:
    - For WHO Functional Assessment Classification II or III: Resulting clinical status defined as stable and not satisfactory, or unstable and deteriorating
    - For WHO Functional Assessment Classification IV: No rapid improvement to WHO Functional Assessment Classification III or better
    - Clinical status defined as stable and not satisfactory
- For Tracleer in members less than 18 years of:
  - Must be age 3 years or older
  - Must have idiopathic or congenital PAH WHO Group 1
  - Must provide baseline pulmonary vascular resistance (PVR)
- For non-preferred agents:
  - Must have a documented trial and failure, contraindication, or intolerance to at least TWO of the preferred agents within the same class
- For Letairis, Opsumit, Adempas, and Tracleer verification prescriber and patient are enrolled in associated REMS Program
- If patient is a woman of childbearing potential, documented contraceptive plan and negative pregnancy test
- 2. Chronic Thromboembolic Pulmonary Hypertension (CTEPH): Adempas only
  - Requested drug must be a soluble guanylate cyclase stimulator (Adempas)
  - Must be age 18 years or older
  - Must be prescribed by or in consultation with a cardiologist of pulmonologist experienced in the diagnosis and treatment of PAH
  - Must have a diagnosis of CTEPH classified as WHO Group 4
  - Must have New York Heart Association (NYHA) or WHO functional class II or III symptoms



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- Documentation of baseline 6-minute walk test
- Documentation of Pulmonary vascular resistance (PVR) > 3 Wood units following pulmonary thromboendarterectomy
- Documentation of ALL of the following:
  - Patient inoperable for pulmonary endarterectomy
  - PVR >3 Wood units
  - Mean pulmonary artery pressure (mPAP) >25 mmHg
- Must not be used concomitantly with organic nitrates or phosphodiesterase-5 inhibitors [Revatio (sildenafil) or Adcirca (tadalafil)]
- Verification prescriber and patient are enrolled in Adempas REMS Program
- If patient is a woman of childbearing potential, documented contraceptive plan and negative pregnancy test

Note: Documentation MUST include either paid claims OR specific dates of use for medication trials AND/OR chart documentation from the provider noting a contraindication, intolerance, or failure to all pre-requisite medications

- B. Must be prescribed at a dose within the manufacturer's dosing guidelines (based on diagnosis, weight, etc) listed in the FDA approved labeling.
- C. Medications in this policy used for the treatment of pulmonary arterial hypertension will be considered investigational or experimental for any other use and will not be covered.

# D. <u>Reauthorization Criteria:</u>

All prior authorization renewals are reviewed on an annual basis to determine the Medical Necessity for continuation of treatment. Authorization may be extended at 1year intervals based upon:

MPC Renewal:

- Chart documentation from the prescriber that the member's condition has improved based upon the prescriber's assessment while on therapy.
- Must have chart documentation of clinical response, such as one of the following:
  - Reduction in mPAP of at least 10 mm-Hg from baseline
  - mPAP <40 mmHg without a decrease in cardiac output
  - o Improvement on 6-minute walk test from baseline
- For Tracleer less than 18 years old:
  - Must provide documentation of improvement in PVR and/or exercise ability



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- Must not have unacceptable toxicity from the drug which requires discontinuation of therapy, such as:
  - Revatio, Adcirca: pulmonary edema; hearing or visual impairment; symptomatic hypotension; epistaxis
  - Flolan, Veletri: anticoagulation abnormalities (bleeding); pulmonary edema
  - Remodulin: blood stream infections (BSIs); sepsis; infusion site reactions
  - Tyvaso: symptomatic hypotension; anticoagulation abnormalities (bleeding)
  - Ventavis: hypotension (systolic BP < 85 mm Hg); pulmonary edema
  - Tracleer, Letairis, Opsumit: hepatic impairment; fluid retention; pulmonary edema; decreased hemoglobin and hematocrit
  - Adempas: symptomatic hypotension, bleeding, and pulmonary edema.
  - Uptravi: decreased hemoglobin
- For Tracleer, Letairis, Opsumit, and Adempas, verification prescriber and patient are enrolled in associated REMS Program
- If patient is a woman of childbearing potential, documented contraceptive plan and negative pregnancy test

# Renewal from Previous Insurer:

- Members who have received prior approval (from insurer other than MPC), or have been receiving medication samples, should be considered under criterion A (Initial Authorization Criteria)
- Provider has documented clinical response of the member's condition which has stabilized or improved based upon the prescriber's assessment

## Limitations:

Length of Authorization (if above criteria met)				
Initial Authorization	Up to 1 year			
Reauthorization	Same as initial			

If the established criteria are not met, the request is referred to a Medical Director for review.

Code	Description
J1325	Injection, epoprostenol, 0.5 mg



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#### **REVIEW HISTORY**

DESCRIPTION OF REVIEW / REVISION	DATE APPROVED
Annual Review	02/2024
Change in Non-MPC renewal to renewal from previous insurer	
Annual review	02/2023
Selected Revision Addition of MPC vs Non-MPC Renewal	10/2022
Annual review	02/2022
Addition of dosing requirements and off-label restrictions	12/2021
P&T Review	11/2020

