

# Clinical Policy: Epoprostenol (Flolan, Veletri)

Reference Number: ERX.SPA.35

Effective Date: 07.01.16 Last Review Date: 02.21

Line of Business: Commercial, Medicaid Revision Log

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

## **Description**

Epoprostenol (Flolan®, Veletri®) is a prostacyclin.

## FDA Approved Indication(s)

Flolan and Veletri are indicated for the treatment of pulmonary arterial hypertension (PAH) (World Health Organization [WHO] Group 1) to improve exercise capacity.

Studies establishing effectiveness included predominantly patients with New York Heart Association (NYHA) Functional Class III-IV symptoms and etiologies of idiopathic or heritable PAH or PAH associated with connective tissue diseases.

#### 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.

Health plan approved formularies should be reviewed for all coverage determinations. Requirements to use preferred alternative agents apply only when such requirements align with the health plan approved formulary.

It is the policy of health plans affiliated with Envolve Pharmacy Solutions™ that Flolan and Veletri are **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. If request is for brand Flolan or brand Veletri, medical justification supports inability to use generic epoprostenol sodium (e.g., contraindication to excipients);
- 5. Provider must submit treatment plan detailing pump rate, dose and quantity (in mL).

Approval duration: 6 months

#### B. Other diagnoses/indications

1. Refer to ERX.PA.01 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

## **II.** Continued Therapy

## A. Pulmonary Arterial Hypertension (must meet all):

- 1. Currently receiving medication via a health plan affiliated with Envolve Pharmacy Solutions or member has previously met initial approval criteria;
- 2. Member is responding positively to therapy;
- 3. Provider must submit treatment plan detailing pump rate, dose and quantity (in mL).

#### Approval duration: 12 months



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

1. Currently receiving medication via a health plan affiliated with Envolve Pharmacy Solutions and documentation supports positive response to therapy.

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

2. Refer to ERX.PA.01 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

## 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 policy – ERX.PA.01 or evidence of coverage documents.

## IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

FC: functional class PAH: pulmonary arterial hypertension

FDA: Food and Drug Administration

NYHA: New York Heart Association

PH: pulmonary hypertension

WHO: World Health Organization

#### 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® CR,	60 mg PO QD; may increase	240 mg/day
Procardia®, Procardia XL®)	to 120 to 240 mg/day	
diltiazem (Dilacor XR®, Dilt-XR®, Cardizem®	720 to 960 mg PO QD	960 mg/day
CD, Cartia XT <sup>®</sup> , Tiazac <sup>®</sup> , Taztia XT <sup>®</sup> ,		
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):
  - o Congestive heart failure due to severe left ventricular systolic dysfunction
  - o Pulmonary edema
  - Hypersensitivity to the drug or to structurally related compounds
- 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 Hypertension: WHO/NYHA Functional Classes (FC)

Treatment Approach*	FC	Status at Rest	Tolerance of Physical Activity (PA)	PA Limitations	Heart Failure
Monitoring for progression of PH and treatment of	I	Comfortable at rest	No limitation	Ordinary PA does not cause undue dyspnea or fatigue, chest pain, or near syncope	



Treatment Approach*	FC	Status at Rest	Tolerance of Physical Activity (PA)	PA Limitations	Heart Failure
co-existing conditions					
Advanced	11	Comfortable at rest	Slight limitation	Ordinary PA causes undue dyspnea or fatigue, chest pain, or near syncope	
treatment of PH with PH-targeted therapy - see Appendix F**	III	Comfortable at rest	Marked limitation	Less than ordinary PA causes undue dyspnea or fatigue, chest pain, or near syncope	
Appendix F***	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

<sup>\*</sup>PH supportive measures may include diuretics, oxygen therapy, anticoagulation, digoxin, exercise, and 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	Synthetic prostacyclin analog	Treprostinil	Orenitram (oral tablet) Remodulin (IV) Tyvaso (inhalation)
	derivatives		lloprost	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	Nonselective dual	Bosentan	Tracleer (oral tablet)
9	-	action receptor antagonist	Macitentan	Opsumit (oral tablet)
	Nitric oxide-cyclic guanosine monophosphate	Phosphodiesterase type 5 (PDE-5) inhibitor	Sildenafil	Revatio (IV, oral tablet, oral suspension)
	enhancer		Tadalafil	Adcirca (oral tablet)
		Guanylate cyclase stimulant	Riociguat	Adempas (oral tablet)

V. Dosage and Administration

Drug Name	Dosing regimen	Maximum Dose	
Epoprostenol (Flolan)	2 ng/kg/min IV, increased by 1-2 ng/kg/min at	Based on clinical	
	intervals of at least 15 minutes	response	
Epoprostenol (Veletri)	2 ng/kg/min IV, increased by 2 ng/kg/min every	Based on clinical	
	15 minutes or longer	response	

VI. Product Availability

Drug Name	Availability
Epoprostenol (Flolan)	Vial with powder for reconstitution: 0.5 mg, 1.5 mg



Drug Name	Availability
Epoprostenol (Veletri)	Vial: 0.5 mg/10 mL, 1.5 mg/10 mL

#### VII. References

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- 10. 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.
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Reviews, Revisions, and Approvals	Date	P&T Approval Date
FC II is added to the prostanoid class of PH drugs. An efficacy statement is added to the continuation criteria. Initial and continuation durations increased to 6 and 12 months respectively. Appendices covering PH groups, functional class and therapies reorganized.	04.17	05.17
1Q18 annual review: Converted to new template. Removed WHO/NYHA classification from initial criteria. References reviewed and updated.	11.21.17	02.18
1Q 2019 annual review: no significant changes; references reviewed and updated.	11.20.18	02.19
1Q 2020 annual review: no significant changes; added statement requiring treatment plan detailing dose, quantity, and frequency; references reviewed and updated.	11.26.19	02.20
1Q 2021 annual review: for requests for brand Flolan or brand Veletri, added requirement for medical justification supporting inability to use generic epoprostenol; references reviewed and updated.	10.12.20	02.21

# CLINICAL POLICY Epoprostenol



#### **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.

This Clinical Policy is not intended to dictate to providers how to practice medicine, nor does it constitute a contract or guarantee regarding payment or results. 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.

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