

Clinical Policy: Bosentan (Tracleer)

Reference Number: CP.PHAR.191

Effective Date: 03.16 Last Review Date: 02.20

Line of Business: Commercial, HIM, Medicaid Revision Log

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

Description

Bosentan (Tracleer®) is an endothelin receptor antagonist.

FDA Approved Indication(s)

Tracleer is indicated for the treatment of pulmonary arterial hypertension (PAH) (World Health Organization [WHO] Group 1):

- In adults to improve exercise ability and to decrease clinical worsening
 - O Studies establishing effectiveness included predominantly patients with New York Heart Association (NYHA) Functional Class II-IV symptoms and etiologies of idiopathic or heritable PAH (60%), PAH associated with connective tissue diseases (21%), and PAH associated with congenital heart disease with left-to-right shunts (18%).
- In pediatric patients aged 3 years and older with idiopathic or congenital PAH to improve pulmonary vascular resistance (PVR), which is expected to result in an improvement in exercise ability

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 Tracleer 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. If request is for Tracleer, medical justification supports inability to use generic bosentan (e.g., contraindications to excipients);
- 5. Dose does not exceed 250 mg (4 tablets) per day.

Approval duration:

Medicaid/HIM – 6 months

Commercial – Length of Benefit



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.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and 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;
- 3. If request is for a dose increase, new dose does not exceed 250 mg (4 tablets) per day.

Approval duration:

Medicaid/HIM – 12 months

Commercial - Length of Benefit

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 12 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.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and 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.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid 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 PH: pulmonary hypertension

NYHA: New York Heart Association 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	240 mg/day
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):
 - o Pregnancy
 - Use with cyclosporine
 - Use with glyburide
 - Hypersensitivity
- Boxed warning(s):
 - o Risk of hepatotoxicity (REMS program)
 - Embryo-fetal toxicity (REMS program)

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 coexisting conditions	I	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.

Appendix F: Pulmonary Hypertension: Targeted Therapies

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)
Reduction of	derivatives.		Iloprost	Ventavis (inhalation)
pulmonary arterial pressure		Non-prostanoid prostacyclin receptor (IP receptor) agonist	Selexipag	Uptravi (oral tablet)
through vasodilation	Endothelin receptor	Selective receptor antagonist	Ambrisentan	Letairis (oral tablet)
	antagonist (ETRA)	Nonselective dual action receptor	Bosentan	Tracleer (oral tablet)
		antagonist	Macitentan	Opsumit (oral tablet)
	Nitric oxide- cyclic guanosine monophosphat e enhancer	Phosphodiesterase type 5 (PDE5) inhibitor	Sildenafil	Revatio (IV, oral tablet, oral suspension)
			Tadalafil	Adcirca (oral tablet)
		Guanylate cyclase stimulant (sGC)	Riociguat	Adempas (oral tablet)



V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
PAH	Initially 62.5 mg PO BID for 4 weeks, then	250 mg/day
	increased to 125 mg PO BID	

VI. Product Availability

• Tablets: 62.5 mg, 125 mg

• Dispersible tablet for oral suspension: 32 mg

VII. References

- 1. Tracleer Prescribing Information. South San Francisco, CA: Actelion Pharmaceuticals US, Inc.; May 2019. Available at: http://www.tracleer.com/. Accessed November 22, 2019.
- 2. McLaughlin VV, Archer SL, Badesch DB, et al. ACCF/AHA 2009 expert consensus document on pulmonary hypertension: A report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents and the American Heart Association developed in collaboration with the American College of Chest Physicians, American Thoracic Society, Inc., and the Pulmonary Hypertension Association. J Am Coll Cardiol. 2009; 53(17): 1573-1619.
- 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.
- 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, Vachiery JL, et al. 2015 ESC/ERS Guidelines for the diagnosis and treatment of pulmonary hypertension. Kardiol Pol. 2015;73(12):1127-206. doi: 10.5603/KP.2015.0242
- 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.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy split from CP.PHAR.33.PAH and converted to new	02.16	03.16
template.		
Criteria: added specialist requirement; removed echocardiogram as		
an option for confirming a PH diagnosis; removed hard stop after 3		
months of therapy, updated contraindications based on PI.		
Appendices removed: 1) examples of calcium channel blocker		
contraindications; 2) nitrate therapy examples; 3) PAH definition.		
FC II is added to the prostanoid class of PH drugs. Safety criteria	02.17	03.17
were removed unless they represent contraindications or black box		



Reviews, Revisions, and Approvals	Date	P&T Approval Date
warnings not covered by a REMS program, and provide specific		
lab/imaging parameters that must be met prior to initiation of		
therapy. An efficacy statement is added to the continuation criteria. Initial and continuation durations increased to 6 and 12 months		
respectively. Appendices covering PH group, functional class and		
therapy reorganized.		
1Q18 Annual Review: Combined with HIM.PA.SP5. Converted to	11.20.17	02.18
new template. Removed WHO/NYHA classifications from initial		
criteria. References reviewed and updated.		
Per SDC: added Commercial line of business; added 32 mg	06.14.18	
strength to Section VI.		
1Q 2019 annual review: no significant changes; revised approval	11.20.18	02.19
duration to length of benefit for commercial; references reviewed		
and updated.		
1Q 2020 annual review: no significant changes; added max	11.26.19	02.20
quantity per day; references reviewed and updated.		
For brand Tracleer requests, added requirement for medical	05.26.20	
justification why generic cannot be used per May SDC and prior		
clinical guidance.		

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

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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.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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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.

For Health Insurance Marketplace members, when applicable, this policy applies only when the prescribed agent is on your health plan approved formulary. Request for non-formulary drugs must be reviewed using the formulary exception policy.

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