

Clinical Policy: Berotralstat (Orladeyo)

Reference Number: CP.PHAR.485 Effective Date: 12.03.20 Last Review Date: 08.21 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

Berotralstat (OrladeyoTM) is a plasma kallikrein inhibitor.

FDA Approved Indication(s)

Orladeyo is indicated as prophylaxis to prevent attacks of hereditary angioedema (HAE) in patients 12 years and older.

Limitation(s) of use: Orladeyo should not be used for treatment of acute HAE attacks.

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 Orladeyo is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Hereditary Angioedema (must meet all):
 - 1. Diagnosis of HAE confirmed by one of the following (a or b):
 - a. Low C4 level and low C1-INH antigenic or functional level (see Appendix D);
 - b. Normal C4 level and normal C1-INH level, and both of the following (i and ii):
 - i. History of recurrent angioedema;
 - ii. Family history of angioedema;
 - 2. Prescribed by or in consultation with an allergist, hematologist, or immunologist;
 - 3. Age \geq 12 years;
 - 4. Member meets one of the following (a, b, or c):
 - a. Member experiences more than one severe event per month;
 - b. Member is disabled more than five days per month;
 - c. Member has a history of previous airway compromise;
 - 5. Failure of Haegarda[®], unless contraindicated or clinically significant adverse effects are experienced;
 - 6. Member is not using Orladeyo in combination with another FDA-approved product for long-term prophylaxis of HAE attacks (e.g., Cinryze[®], Haegarda, Takhzyro[™]);
 - 7. Dose does not exceed 150 mg (1 capsule) per day.

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.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

- A. Hereditary Angioedema (must meet all):
 - 1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - 2. Member is responding positively to therapy as evidenced by a reduction in attacks from baseline;
 - 3. Member is not using Orladeyo in combination with another FDA-approved product for long-term prophylaxis of HAE attacks (e.g., Cinryze, Haegarda, Takhzyro);
 - 4. If request is for a dose increase, new dose does not exceed 150 mg (1 capsule) per day.

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.CPA.09 for commercial, HIM.PA.154 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.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid, or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key C1-INH: C1 esterase inhibitor FDA: Food and Drug Administration HAE: hereditary angioedema

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 for all relevant lines of business and may require prior authorization.



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
C1 esterase inhibitor	60 IU/kg body weight SC twice weekly (every 3 or 4 days)	Based on weight, 60 IU/kg/dose
(Haegarda [®])		_

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 None reported

Appendix D: General Information

- Diagnosis of HAE:
 - There are two classifications of HAE: HAE with C1-INH deficiency (further broken down into Type 1 and Type II) and HAE of unknown origin (also known as Type III).
 - In both Type 1 (~85% of cases) and Type II (~15% of cases), C4 levels are low. C1-INH antigenic levels are low in Type I while C1-INH functional levels are low in Type II. Diagnosis of Type I and II can be confirmed with laboratory tests. Reference ranges for C4 and C1-INH levels can vary across laboratories (see below for examples); low values confirming diagnosis are those which are below the lower end of normal.

Laboratory Test & Reference Range	Mayo Clinic	Quest Diagnostics	LabCorp
C4	14-40 mg/dL	16-47 mg/dL	13-44 mg/dL
C1-INH, antigenic	19-37 mg/dL	21-39 mg/dL	21-39 mg/dL
C1-INH,	Normal: > 67%	Normal: $\geq 68\%$	Normal: > 67%
functional	Equivocal: 41-67%	Equivocal: 41-67%	Equivocal: 41-67%
	Abnormal: < 41%	Abnormal: $\leq 40\%$	Abnormal: < 41%

 Type III, on the other hand, presents with normal C4 and C1-INH levels. Some patients have an associated mutation in the FXII gene, while others have no identified genetic indicators. Type III is very rare (number of cases unknown), and there are no laboratory tests to confirm the diagnosis. Instead, the diagnosis is clinical and supported by recurrent episodes of angioedema with a strong family history of angioedema.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
HAE attack prophylaxis	150 mg PO QD	150 mg/day

VI. Product Availability

Capsules: 110 mg, 150 mg



VII. References

 Orladeyo Prescribing Information. Durham, NC: BioCryst Pharmaceuticals, Inc.; December 2020. Available at: <u>https://www.biocryst.com/wp-</u>

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- ClinicalTrials.gov [Internet]. Bethesda (MD): National Library of Medicine (US). Identifier NCT03472040, A Long Term Safety Study of BCX7353 in Hereditary Angioedema (APeX-S); 18 March 2020. Available at: <u>https://clinicaltrials.gov/ct2/show/NCT03472040</u>. Accessed March 30, 2020.
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- 10. LabCorp [internet database]. Burlington, North Carolina: Laboratory Corporation of America. Updated periodically. Accessed December 10, 2020.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created pre-emptively	04.14.20	05.20
Drug is now FDA approved – criteria updated per FDA labeling, amended bypass in 1.b from low C4 to normal C4, updated reference for HIM off-label use to HIM.PA.154 (replaces HIM.PHAR.21); references reviewed and updated.	01.12.21	02.21
Per June SDC and prior clinical guidance, added redirection to Haegarda.	06.02.21	08.21

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

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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.

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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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