

# UnitedHealthcare Pharmacy Clinical Pharmacy Programs

Program Number	2025 P 2031-15
Program	Prior Authorization/Medical Necessity
Medication	Cinryze® (C1 esterase inhibitor, human)*
	* Cinryze is excluded from coverage for the majority of our benefits
P&T Approval Date	8/2014, 8/2015, 7/2016, 7/2017, 7/2018, 7/2019, 6/2020, 3/2021,
	3/2022, 3/2023, 3/2024, 3/2025
Effective Date	6/1/2025

## 1. Background:

Cinryze is a plasma-derived C1 esterase inhibitor (human) indicated for routine prophylaxis against angioedema attacks in adolescent, adult, and pediatric (6 years of age and above) patients with hereditary angioedema (HAE).<sup>1</sup>

## 2. Coverage Criteria <sup>a</sup>:

## A. Initial Authorization

- 1. Cinryze will be approved based on <u>all</u> of the following criteria:
  - a. Diagnosis of hereditary angioedema (HAE) as confirmed by **one** of the following:
    - (1) C1 inhibitor (C1-INH) deficiency or dysfunction (Type I or II HAE) as documented by **one** of the following (per laboratory standard):
      - (a) C1-INH antigenic level below the lower limit of normal
      - (b) C1-INH functional level below the lower limit of normal

## -OR-

- (2) HAE with normal C1 inhibitor levels and **one** of the following:
  - (a) Confirmed presence of variant(s) in the gene(s) for factor XII, angiopoietin-1, plasminogen-1, kininogen-1, myoferlin, and heparan sulfate-glucosamine 3-O-sulfotransferase 6
  - (b) Recurring angioedema attacks that are refractory to high-dose antihistamines with confirmed family history of angioedema
  - (c) Recurring angioedema attacks that are refractory to high-dose antihistamines with unknown background de-novo mutation(s) (i.e., no family history) (HAE-unknown)

## -AND-

- b. All of the following:
  - (1) Prescribed for the prophylaxis of HAE attacks



### -AND-

(2) Not used in combination with other products indicated for prophylaxis against HAE attacks (e.g., Haegarda, Orladeyo, Takhzyro)

#### -AND-

(3) Prescriber attests that patient has experienced attacks of a severity and/or frequency such that they would clinically benefit from prophylactic therapy with Cinryze

### -AND-

- c. History of failure to **both** of the following (document date of trial and list reason for therapeutic failure):
  - (1) Haegarda (C1 esterase inhibitor, human)
  - (2) Takhzyro (lanadelumab)

### -AND-

- d. Prescribed by **one** of the following:
  - (1) Immunologist
  - (2) Allergist

Authorization of therapy will be issued for 12 months.

## **B.** Reauthorization

- 1. Cinryze will be approved based on <u>all</u> of the following criteria:
  - a. Documentation of positive clinical response to Cinryze therapy.

#### -AND-

b. Reduction in the utilization of on-demand therapies used for acute attacks (e.g., Berinert, Firazyr, Ruconest) as determined by claims information, while on Cinryze therapy

#### -AND-

- c. **Both** of the following:
  - (1) Prescribed for the prophylaxis of HAE attacks

#### -AND-

(2) Not used in combination with other products indicated for prophylaxis against



HAE attacks (e.g., Haegarda, Orladeyo, Takhzyro)

#### -AND-

- d. Prescribed by **one** of the following:
  - (1) Immunologist
  - (2) Allergist

# Authorization of therapy will be issued for 12 months.

<sup>a</sup> State mandates may apply. Any federal regulatory requirements and the member specific benefit plan coverage may also impact coverage criteria. Other policies and utilization management programs may apply.

# 3. Additional Clinical Programs:

- Notwithstanding Coverage Criteria, UnitedHealthcare may approve initial and reauthorization based solely on previous claim/medication history, diagnosis codes (ICD-10) and/or claim logic. Use of automated approval and re-approval processes varies by program and/or therapeutic class.
- Supply limits may be in place.

#### 4. References:

- 1. Cinryze [package insert]. Lexington, MA: ViroPharma Biologics LLC; November 2024.
- 2. Maurer M, Magerl M, Ansotegui I, et al. The international WAO/EAACI guideline for the management of hereditary angioedema-The 2017 revision and update. Allergy. 2018 Jan 10.
- 3. Wu, E. Hereditary angioedema with normal C1 inhibitor. In: UpToDate, Saini, S (Ed), UpToDate, Waltham, MA, 2023.
- 4. Busse, P., Christiansen, S., Riedl, M., et. al. "US HAEA Medical Advisory Board 2020 Guidelines for the Management of Hereditary Angioedema." *The Journal of Allergy and Clinical Immunology*. 2020 September 05.
- 5. Maurer M, Magerl M, Betschel S, et al. The international WAO/EAACI guideline for the management of hereditary angioedema-The 2021 revision and update. Allergy. 2022;77(7):1961-1990. doi:10.1111/all.15214

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	human)	
Change Control		
8/2014	New program.	
9/2014	Administrative change - Tried/Failed exemption for State of New Jersey removed.	
8/2015	Annual review. No change.	
7/2016	Annual review with no changes to the coverage criteria. Updated background and references. Added Maryland, Indiana and West Virginia coverage information.	
11/2016	Administrative change. Added California coverage information.	



2/2017	Administrative change. Correct Oxford effective date.
7/2017	Annual review. No change to criteria. Updated reference.
7/2018	Annual review. Updated coverage criteria. Updated references.
7/2019	Annual review. Updated background and references.
6/2020	Annual review. Aligned criteria with acute and prophylactic therapies. Removed off-label use for acute attacks. Added notation that Cinryze is excluded for most plans.
3/2021	Added diagnosis criteria and aligned combination use language with prophylactic therapies. Updated references.
3/2022	Annual review. Updated references.
3/2023	Annual review. Updated references.
3/2024	Annual review with update to diagnostic criteria for HAE with normal C1 inhibitor levels. Simplified reauthorization criteria. Updated reference.
3/2025	Annual review. Updated coverage criteria by adding Takhzyro (lanadelumab) to list of products requiring a history of use. Updated reference.