

## Clinical Policy: Varenicline (Tyrvaya)

Reference Number: CP.PMN.273

Effective Date: 03.01.22

Last Review Date: 02.25

Line of Business: Commercial, HIM, Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

### Description

Varenicline (Tyrvaya<sup>®</sup>) nasal spray is a cholinergic agonist.

### FDA Approved Indication(s)

Tyrvaya is indicated for the treatment of the signs and symptoms of dry eye disease (DED).

### 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<sup>®</sup> that Tyrvaya is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

##### A. Dry Eye Disease (must meet all):

1. Diagnosis of DED;
2. Age  $\geq$  18 years;
3. Failure of an artificial tears agent (*see Appendix B for examples*) at up to maximally indicated doses, unless clinically significant adverse effects are experienced or all are contraindicated;
4. Failure of at least one ophthalmic anti-inflammatory agent\* (*see Appendix B for examples*) at up to maximally indicated doses, unless clinically significant adverse effects are experienced or all are contraindicated;  
*\*Prior authorization may be required for ophthalmic anti-inflammatory agents*
5. Failure of generic cyclosporine ophthalmic emulsion 0.05% (generic Restasis<sup>®</sup>), unless contraindicated or clinically significant adverse effects are experienced;  
*\*Prior authorization may be required for cyclosporine ophthalmic emulsion*
6. Dose does not exceed 2 nasal spray bottles per 30 days.

**Approval duration: 6 months**

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

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
  - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or

- b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

## II. Continued Therapy

### A. Dry Eye Disease (must meet all):

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy;
3. If request is for a dose increase, new dose does not exceed 2 nasal spray bottles per 30 days.

**Approval duration: 12 months**

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

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
  - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
  - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: 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*

AAO: American Academy of Ophthalmology

DED: Dry Eye Disease

FDA: Food and Drug Administration

*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
OTC artificial tear product examples*: <ul style="list-style-type: none"> <li>glycerin, hypromellose, polyethylene glycol ophthalmic solution (Visine<sup>®</sup>)</li> <li>artificial tear ophthalmic ointment (Refresh P.M.<sup>®</sup>)</li> <li>white petrolatum-mineral oil ophthalmic ointment (Systane<sup>®</sup> Nighttime)</li> <li>carboxymethylcellulose ophthalmic solution (Refresh<sup>®</sup> Tears)</li> <li>polyvinyl alcohol ophthalmic solution 1.4%</li> </ul>	Solution/gel: 1-2 drops into the affected eye(s) 2-4 times/day as needed  Ointment: Apply small amount (~1/4 inch) to the inside of the lower eyelid 1-4 times/day as needed	Varies
ophthalmic anti-inflammatory agent examples: <ul style="list-style-type: none"> <li>loteprednol etabonate gel/ointment (Lotemax<sup>®</sup>)<sup>†</sup></li> <li>dexamethasone solution/suspension (Maxidex<sup>®</sup>)<sup>†</sup></li> <li>fluorometholone suspension 0.1% (FML<sup>®</sup>, FML Liquifilm<sup>®</sup>, Flarex<sup>®</sup>)<sup>†</sup></li> <li>prednisolone solution/suspension 1% (Pred Forte<sup>®</sup>)<sup>†</sup></li> </ul>		Varies
Note: Ophthalmic NSAIDs are not indicated.	Varies	
cyclosporine (Restasis <sup>®</sup> )	1 drop OU BID	2 drops/eye/day

*Therapeutic alternatives are listed as Brand name<sup>®</sup> (generic) when the drug is available by brand name only and generic (Brand name<sup>®</sup>) when the drug is available by both brand and generic.*

*\*Available over-the-counter (OTC) in a number of preparations. This list is not all-inclusive*

*†Off-label*

*Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): None reported
- Boxed warning(s): None reported

*Appendix D: General Information*

- Per American Academy of Ophthalmology (AAO) guidelines, artificial tears are the standard therapy for all severity of dry eyes.
- If artificial tears are inadequate, then the next trial in therapy per AAO guidelines would be ophthalmic anti-inflammatory therapies such as topical non-glucocorticoid immunomodulatory drugs (e.g., cyclosporine), topical LFA-1 antagonist drugs (e.g. lifitegrast), and topical corticosteroid drugs (e.g. loteprednol, prednisolone).

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
DED	1 spray (0.03 mg/ actuation) in each nostril twice daily	2 sprays/nostril/day

**VI. Product Availability**

Nasal spray: 0.03 mg of varenicline in each spray (0.05 mL)

**VII. References**

1. Tyrvaya Prescribing Information. Princeton, NJ. Oyster Point Pharma, Inc. February 2024. Available at <https://www.tyrvaya.com/>. Accessed November 14, 2024.
2. American Academy of Ophthalmology Cornea/External Disease Panel. Preferred Practice Pattern<sup>®</sup> Guidelines. Dry Eye Syndrome. San Francisco, CA: American Academy of Ophthalmology; February 2024. Available at: [www.aao.org/ppp](http://www.aao.org/ppp). Accessed November 14, 2024.
3. Aragona P, Giannaccare G, Mencucci R, et al. Modern approach to the treatment of dry eye, a complex multifactorial disease: a P.I.C.A.S.S.O. board review. *British Journal of Ophthalmology* 2021;105:446-453. <http://dx.doi.org/10.1136/bjophthalmol-2019-315747>.
4. Clinical Pharmacology [database online]. Tampa, FL: Elsevier; 2024. URL: [www.clinicalkeys.com/pharmacology](http://www.clinicalkeys.com/pharmacology).
5. Wirta D, Torkildsen GL, Boehmer B, et al. ONSET-1 Phase 2b randomized trial to evaluate the safety and efficacy of OC-01 (varenicline solution) nasal spray on signs and symptoms of dry eye disease. *Cornea*. 2022 Oct 1;41(10):1207-1216. doi: 10.1097/ICO.0000000000002941.
6. Wirta D, Vollmer P, Paauw J, et al.; ONSET-2 study group. efficacy and safety of OC-01 (varenicline solution) nasal spray on signs and symptoms of dry eye disease: The ONSET-2 Phase 3 Randomized Trial. *Ophthalmology*. 2022 Apr;129(4):379-387. doi: 10.1016/j.ophttha.2021.11.004.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created.	11.23.21	02.22
Template changes applied to other diagnoses/indications and continued therapy section.	10.07.22	
1Q 2023 annual review: no significant changes; references reviewed and updated.	10.19.22	02.23
1Q 2024 annual review: no significant changes; in Appendix B, clarified OTC artificial tears examples are non-inclusive list,	11.02.23	02.24

Reviews, Revisions, and Approvals	Date	P&T Approval Date
removed commercially unavailable branded products, and clarified ophthalmic NSAIDs are not indicated; references reviewed and updated.		
Per SDC request, added Commercial line of business (CP.CPA.354 retired). Added redirection to generic Restasis.	09.10.24	11.24
1Q 2025 annual review: clarified prior authorization may be required for anti-inflammatory agents and cyclosporine; clarified failure of generic cyclosporine ophthalmic emulsion; in Appendix B per Clinical Pharmacology, clarified off-label uses for ophthalmic anti-inflammatory agents and clarified anti-inflammatory examples are non-inclusive list; references reviewed and updated.	11.14.24	02.25

**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 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.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members, and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

**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.

©2022 Centene Corporation. All rights reserved. All materials are exclusively owned by Centene Corporation and are protected by United States copyright law and international copyright law. No part of this publication may be reproduced, copied, modified, distributed, displayed, stored in a retrieval system, transmitted in any form or by any means, or otherwise published without the prior written permission of Centene Corporation. You may not alter or remove any trademark, copyright or other notice contained herein. Centene<sup>®</sup> and Centene Corporation<sup>®</sup> are registered trademarks exclusively owned by Centene Corporation.