

References for CEQUA® (cyclosporine ophthalmic solution) 0.09%

Study Design: CEQUA was studied in two 12-week, randomized, multicenter, double-masked, vehicle-controlled studies. Patients were randomly assigned to treatment and dosed twice a day. Study 1 included 455 patients (152 received CEQUA) and Study 2 included 744 patients (371 received CEQUA). The co-primary endpoints for Study 1 were conjunctival staining and global symptom scores (change from baseline to Day 84). The primary endpoint for Study 2 was percentage of eyes demonstrating an improvement of ≥ 10 mm in Schirmer score after 84 days of treatment. Both studies assessed corneal staining as a secondary endpoint.^{2,3,10}

Staining in each region of the conjunctiva was evaluated using a score ranging from 0 (no staining) to 3 (severe staining). Staining in each region of the cornea was evaluated using a score ranging from 0 (no staining) to 4 (severe staining).^{2,3}

Patients were excluded from the studies if they experienced prior treatment failure with cyclosporine 0.05% or used the therapy within 3 months prior to screening. Use of artificial tears was not allowed during the studies. The mean age was 59 years (range, 18-90 years). Eighty-three percent of patients were female.^{2,3}

Phase 4 Study Design: Single arm, Phase 4, 12-week, multicenter study of 124 adults with DED inadequately controlled (ie, still symptomatic and/or exhibiting disease signs) on current Restasis® therapy. The co-primary endpoints were corneal fluorescein staining (CFS) and modified Symptom Assessment in Dry Eye (mSANDe) at Week 12. Patients received 1 drop, 2X daily of CEQUA in each eye.^{4,7,11}

Enrolled patients were selected by their doctors based on: Clinical diagnosis of DED and treatment on Restasis for ≥ 3 months; BCVA of $\geq 20/200$; mSANDe score of ≥ 40 ; total CFS ≥ 6 or CFS in an individual zone ≥ 2 at baseline.¹¹

Exclusions: Previous history of failure on Restasis; discontinued/switched to a different immunomodulatory; allergic conjunctivitis; stable dose for ≥ 3 months of immunomodulators, antihistamines, cholinergics, antimuscarinics, phenothiazines, retinoids, or any systemic or topical corticosteroids.^{4,11}

References:

1. Schechter BA, Urbieta M, Bacharach J, et al. Effect of OTX-101 in patients with dry eye disease at day 14 of treatment: ocular surface endpoint results from the phase 2b/3 clinical trial. *Clin Ophthalmol*. 2022;16:4145-4151.
2. Goldberg DF, Malhotra RP, Schechter BA, Justice A, Weiss SL, Sheppard JD. A phase 3, randomized, double-masked study of OTX-101 ophthalmic solution 0.09% in the treatment of dry eye disease. *Ophthalmology*. 2019;126(9):1230-1237.

3. Tauber J, Schechter BA, Bacharach J, et al. A phase II/III, randomized, double-masked, vehicle-controlled, dose-ranging study of the safety and efficacy of OTX-101 in the treatment of dry eye disease. *Clin Ophthalmol*. 2018;12:1921-1929.
4. Data on file. Cranbury, NJ: Sun Pharmaceutical Industries, Inc.
5. Malhotra R, Devries DK, Luchs J, et al. Effect of OTX-101, a novel nanomicellar formulation of cyclosporine A, on corneal staining in patients with keratoconjunctivitis sicca: a pooled analysis of phase 2b/3 and phase 3 studies. *Cornea*. 2019;38:1259-1265.
6. Karpecki P, Barghout V, Schenkel B, et al. Real-world treatment patterns of OTX-101 ophthalmic solution, cyclosporine ophthalmic emulsion, and lifitegrast ophthalmic solution in patients with dry eye disease: a retrospective analysis. *BMC Ophthalmol*. 2023;23(1):443.
7. Johnston, J. Effect of OTX-101 0.09% on corneal staining and SANDE scores in patients with dry eye disease uncontrolled on cyclosporine ophthalmic emulsion 0.05%. Abstract presented at American Academy of Optometry 2023; October 12, 2023; New Orleans, LA.
8. Xiidra® [package insert]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; 2020.
9. Restasis® [package insert]. Irvine, CA: Allergan; 2017.
10. CEQUA [package insert]. Cranbury, NJ: Sun Pharmaceutical Industries, Inc.; 2022.
11. Effect of CEQUA in Subjects with Dry Eye Disease, [ClinicalTrials.gov](https://www.clinicaltrials.gov/ct2/show/study/NCT04357795) identifier NCT04357795. Updated Sept 09, 2022. Accessed August 29, 2023. <https://www.clinicaltrials.gov/study/NCT04357795>

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