Advanced Lubricant Retention and the 4 Es of Success: SYSTANE® Multi-Dose Preservative Free Artificial Tears

SYSTANE® COMPLETE MDPF · SYSTANE® HYDRATION MDPF



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Artificial tears are a cornerstone of eye care. With nearly 60% of eye care professionals expressing a preference for preservative-free formulations,¹ it's important to have options that are Effective, Ergonomic, Economical, and Environmental—the 4 Es of eye drop success! SYSTANE® COMPLETE Multi-Dose Preservative Free (MDPF) is a preservative-free formulation featuring the same lipid nanoparticle technology as SYSTANE® COMPLETE,²⁻⁴ but in a convenient multi-dose bottle that avoids the need for wasteful single-use packaging.



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Preservative-free lubricant drop formulations play an important clinical role, particularly pre- or post-eye surgery, in those who instill drops several times a day, or in those who should avoid preserved eyedrops for another reason. However, preservative-free options can be limited by the patient's underlying type of dry eye. Furthermore, preservative-free formulations are often packaged as single-use vials, which can generate a lot of plastic waste and may be cumbersome for some patients to use. There is a need for an advanced preservative-free lubricant eyedrop appropriate for many different underlying forms of dry eye, but packaged in an easy-to-use multidose bottle.

SYSTANE® COMPLETE MDPF is an exciting and welcome addition to our armamentarium of artificial tears, since it is appropriate for all major types of dry eye, and can also be instilled before and after contact lens wear[†]—making it the "go to" artificial tear. Just 1 drop of SYSTANE® COMPLETE improves symptoms immediately, and for up to 8 hours.^{5‡} Another SYSTANE-family preservative-free drop, SYSTANE® HYDRATION MDPF, is available for aqueous deficient forms of dry eye in patients who need frequent hydration—and is particularly useful following ocular surgery to relieve dry eye symptoms. These preservative-free products employ multidose bottles to prevent backflow and contamination, thereby avoiding the need for wasteful single-use packaging.

SYSTANE® COMPLETE MDPF and SYSTANE® HYDRATION MDPF are built on the backbone of HP-Guar, which forms a polymer meshwork gel that helps retain active lubricants on the ocular surface and helps support hydration⁶ and protection against desiccation.^{6,7} In addition, SYSTANE® COMPLETE MDPF adds nanosized lipid droplets, which provide better delivery and spread of the formulation* to help fortify the lipid layer of the tear film,²⁻⁴ while SYSTANE® HYDRATION MDPF includes a second polymer, sodium hyaluronate—a naturally occurring hydrophilic moisture magnet⁸ with viscoelastic properties^{4,8}—which helps the active lubricants provide longer-lasting hydration.^{5,7,98}

With so many lubricant eyedrops available, it is essential to make recommendations to help patients purchase a product with the right formulation to address their dry eye needs. Recommend the SYSTANE® family of preservative-free drops with HP-Guar technology—SYSTANE® COMPLETE MDPF or SYSTANE® HYDRATION MDPF—when your patients need preservative-free dry eye relief.

SYSTANE COMPLETE vs. SYSTANE* BALANCE; SYSTANE* HYDRATION vs. SYSTANE* ULTRA Lubricant Eye Drops. †Not a rewetting drop.

‡Based on 0-10 visual analog scale, where 0 = "no symptoms at all" and 10 = "worst imaginable symptoms"; study examined SYSTANE® COMPLETE preserved formulation. §vs. SYSTANE® ULTRA Lubricant Eye Drops; based on in vitro outcomes using SYSTANE® HYDRATION preserved formulation.

References:

1. Nielsen Alcon Systane Dry Eye Drop Study September 2020. 2. Korb DR, Greiner JV, Glonek T. The effects of anionic and zwitterionic phospholipids on the tear film lipid layer. Adv Exp Med Biol. 2002;506(Pt A):495-499. 3. Korb D, Blackie C, Meadows D, Christensen M, Tudor M. Evaluation of extended tear stability by two emulsion based artificial tears. Poster presented at the 6th International Conference of the Tear Film and Ocular Surface: Basic Science and Clinical Relevance; September 22-25, 2010; Florence, IT. 4. Jones L, Downie LE, Korb D, et al. TFOS DEWS II management and therapy report. Ocul Surf. 2017;15:575-628. 5. Silverstein S, Yeu E, Tauber J, et al. Symptom relief following single dose of propylene glycol-hydroxypropyl guar nanoemulsion in patients with dry eye disease: a phase IV, multicenter trial. Clin Ophthalmol. 2020;14:3167. 6. Davitt WF, Bloomenstein M, Christensen M, Martin AE. Efficacy in patients with dry eye after treatment with a new lubricant eye drop formulation. J Ocul Pharmacol Ther. 2010;26:347-353. 7. Rangarajan R, Kraybill B, Ogundele A, Ketelson HA. Effects of hyaluronic acid / hydroxypropyl guar artificial tear solution on protection, recovery, and lubricity in models of corneal epithelium. J Ocul Pharmacol Ther. 2015;31:491-497. 8. Rah MJ. A review of hyaluronan and its ophthalmic applications. Optometry. 2011;82:38-43. 9. Alcon data on file, 2014.