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# Efficacy of 0.38% and 0.18% sodium hyaluronate ocular lubricants for dry eye: A randomized trial in adult gazan participants

By

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Volume: 19    Issue: 1  
DOI: 10.1016/j.optom.2025.100586

Article Number

100586

Published

JAN-MAR 2026

Indexed

2026-02-01

Document Type

Article

Abstract

Purpose: This study aimed to assess the efficacy of two formulations of lubricant eye drops, containing a gelling agent or not, compared to normal saline. This was a prospective, randomized, double-blinded, three-group, parallel, interventional single-site clinical study. Methods: Forty-five Gazan participants with moderate to severe dry eye disease (DED) were randomized into three groups of 15 participants each. Each group received either normal saline eye drops or lubricant eye drops. For each group, one drop was applied three times a day for six weeks. All participants applied the normal saline solution for the first week. The outcomes assessed were the Arab-ocular surface disease index (Arab-OSDI) scores and clinical tests including tear break-up time test (TBUT), corneal fluorescein staining (CFS), and lissamine green conjunctival staining (LGS) at weeks 1, 3, and 6. Results: Both formulations exhibited a significant improvement in Arab-OSDI scores from visit 2 at follow-up

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time points ( $p < 0.001$ ). TBUT, CFS, and LGS showed an improvement in both the SH 0.15% and SH 0.38% groups ( $p < 0.05$ ). SH 0.38% had a greater improvement in the proportion of evaporative dry eye from visit 2 to visit 5 ( $p = 0.001$ ). Conclusion: Lubricant eye drops are beneficial for alleviating the symptoms of dry eye. There was no noticeable difference in the effectiveness of these formulations in relieving symptoms and changing any of the objective signs that were assessed. Improved EDE outcomes occurred with SH 0.38% eye drops, observed between visit 2 and visit 5.

### Keywords

**Author Keywords:** [Lubricant eye drops](#); [Gazan participants](#); [SH 0.15%](#); [SH 0.38%](#); [interventional single-site clinical study](#); [dry eye disease](#)

**Keywords Plus:** [TEAR FILM](#); [RISK-FACTORS](#); [DISEASE](#); [MANAGEMENT](#); [ACID](#); [MULTICENTER](#); [CORNEAL](#); [0.1-PERCENT](#); [PREVALENCE](#); [DISCOMFORT](#)

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JOURNAL OF OPTOMETRY

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| ISSN                            | 1888-4296                                                |
| eISSN                           | 1989-1342                                                |
| Current<br>Publisher            | ELSEVIER, RADARWEG 29, 1043 NX AMSTERDAM,<br>NETHERLANDS |
| Research<br>Areas               | Ophthalmology                                            |
| Web of<br>Science<br>Categories | Ophthalmology                                            |