

**NCC 'GET CONNECTED 2026'**

**Organization Section: NCC/ BCLA**

**Poster Abstracts**

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**Immediate soothing and hydration with propylene glycol-hydroxypropyl-guar- hyaluronic acid nanoemulsion lubricant preservative-free eye drops**

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**Purpose:** Propylene glycol-hydroxypropyl-guar- hyaluronic acid (PG-HPG-HA) nanoemulsion lubricant preservative-free (PF) eye drops are designed to offer immediate comfort to patients with dry eyes. This study assessed the immediate soothing and hydrating effects of PG-HPG-HA PF eye drops in patients with mild to moderate dry eye disease (DED).

**Method:** This was a phase 3, single arm, open-label study, conducted at 9 sites in the United States, enrolling subjects aged  $\geq 18$  years with mild to moderate DED. Subjects received one drop of PG-HPG-HA PF eye drop per eye on day one and were asked to complete questionnaires assessing soothing sensation utilizing a visual analog scale [0 (extremely unsoothing) –100 (extremely soothing)] immediately after instillation. Subjects provided responses to Likert question on eyes feeling hydrated (strongly agree, agree, neither agree nor disagree, disagree, strongly disagree). Safety endpoints included treatment-emergent adverse events (TEAEs).

**Results:** Of the 161 subjects (mean age 48.8 years; female 75.2%) included in this study, 158 subjects completed the study. Dry eye subcategories included aqueous deficient dry eye (ADDE; n=19), evaporative dry eye (EDE; n=89) and mixed dry eye (MDE; n=53). Immediately after instillation, the mean  $\pm$  SD soothing sensation was  $72.4 \pm 17.1$  with more than half of the subjects (57.6%) selecting  $\geq 70$  on the 0–100 scale. In response to the Likert question “Do your eyes feel hydrated”, 84.2% of subjects selected “agree or strongly agree”. No deaths or serious adverse events (AEs) were reported.

**Conclusions:** The use of PG-HPG-HA PF eye drops showed rapid/ immediate soothing and hydration in subjects with mild to moderate DED with no serious AEs.

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