

INTRODUCTION

- When the pupil dilates in low light conditions, patients with Dim Light Disturbances (DLD) experience photic phenomena and decreased vision, especially with night driving
- In the LYNX-1 Phase 3 clinical trial, the efficacy and safety of 0.75% phentolamine ophthalmic solution (POS) was evaluated in DLD subjects
- Moderate pupil reduction with POS may minimize peripheral aberration and benefit DLD patients

METHODS

- Randomized, double-masked, placebo-controlled, multi-center Phase 3 clinical trial
- N=145; 1:1 POS or Placebo for one drop in each eye daily at bedtime for 2 weeks
- Study assessments were performed on Day 8 and Day 15
- Primary endpoint: % of POS-treated subjects with ≥ 15 ETDRS letters of improvement in mesopic Low Contrast Visual Acuity (mLCVA) (distance)
- Secondary efficacy endpoints and safety were evaluated at Day 8 and Day 15

DEMOGRAPHICS AND BASELINE CHARACTERISTICS	
Age, years, Mean (range)	46 (19-70)
Female, % (n)	84% (120)
Race: White, % (n)	92% (132)
Mesopic Low Contrast BCDVA Letters <i>55 letters = 20/20</i>	16 ($>20/100$)
Mesopic High Contrast BCDVA Letters <i>55 letters = 20/20</i>	46 (20/32)
Mesopic Baseline Pupil Diameter Mean (mm)	6.1

Disclosures

Jay Stuart Pepose, Code C (Consultant/Contractor) Acufocus, Allergan, Azura, Bausch+Lomb, Brim Biotech, 2EyesVision, JNJ Vision, Mimetogen, Ocuphire Pharma, OKYO Pharma, Stuart Pharma, Thea Pharma, Telios Pharma, Louis Haddad, Code C (Consultant/Contractor) Ocuphire Pharma, Audrey Lazar, Code C (Consultant/Contractor) Ocuphire Pharma, Mina Sooch, Code E (Employment) Ocuphire Pharma, Mitchell G. Brigell, Code C (Consultant/Contractor) Ocuphire Pharma.

Author Affiliations:

¹Washington University in St. Louis, Department of Ophthalmology, St. Louis, MO

²Ocuphire Pharma, Inc. Farmington Hills, MI

LYNX-1: A Phase 3 Randomized Placebo-Controlled Clinical Trial of Phentolamine Ophthalmic Solution in Subjects with Dim Light Vision Disturbances

Jay Pepose MD, PhD^{1,2}, Louis Haddad MS², Audrey Lazar², Mina Sooch MBA², Mitchell Brigell PhD²

Significantly Greater Percentage of DLD Patients Treated with POS Gained ≥ 15 Letters and ≥ 10 Letters From Baseline at Day 8 and Day 15

Figure 1: Percent of Subjects with ≥ 15 Letter Improvement in mLCVA Study Eye (mITT)

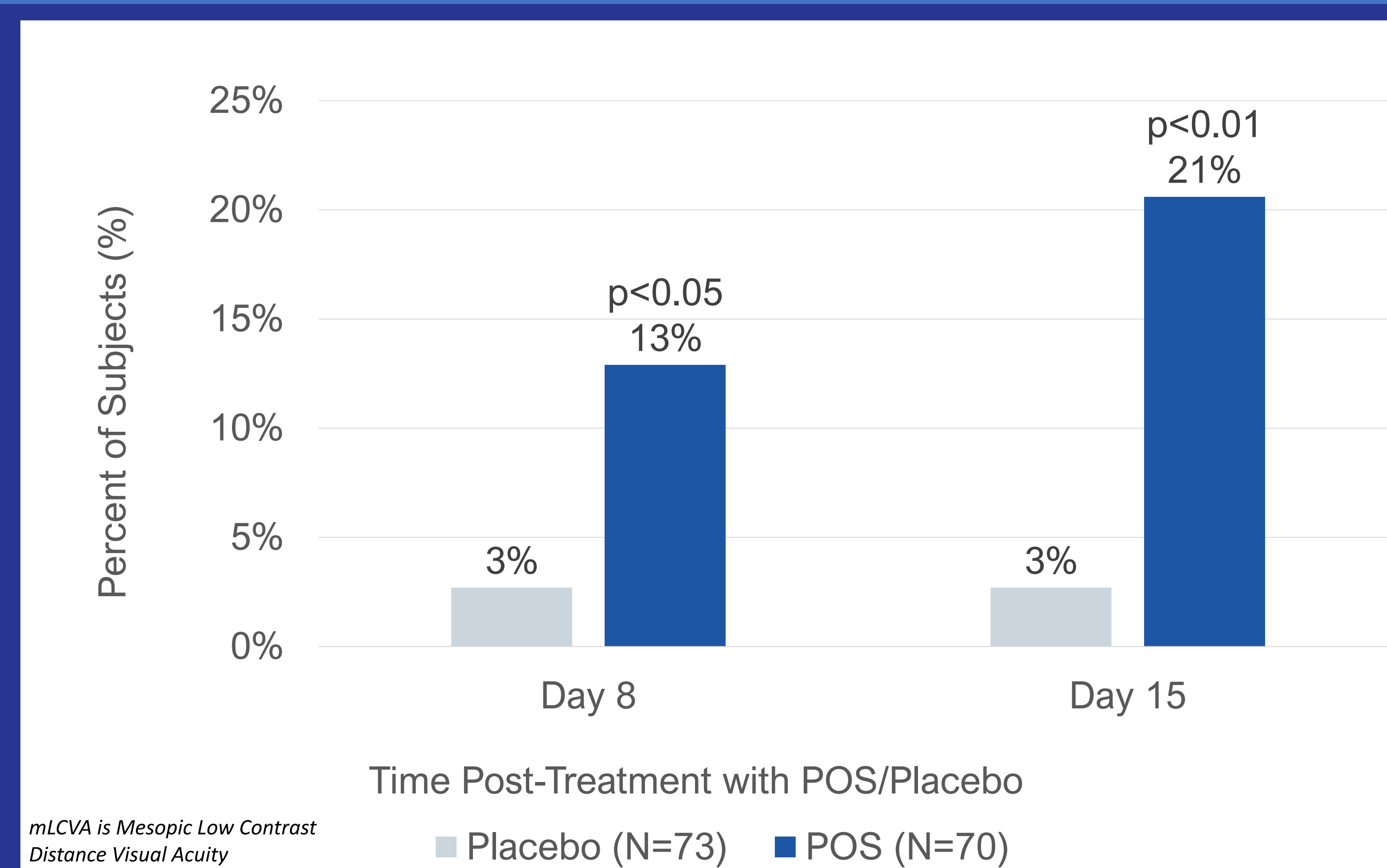
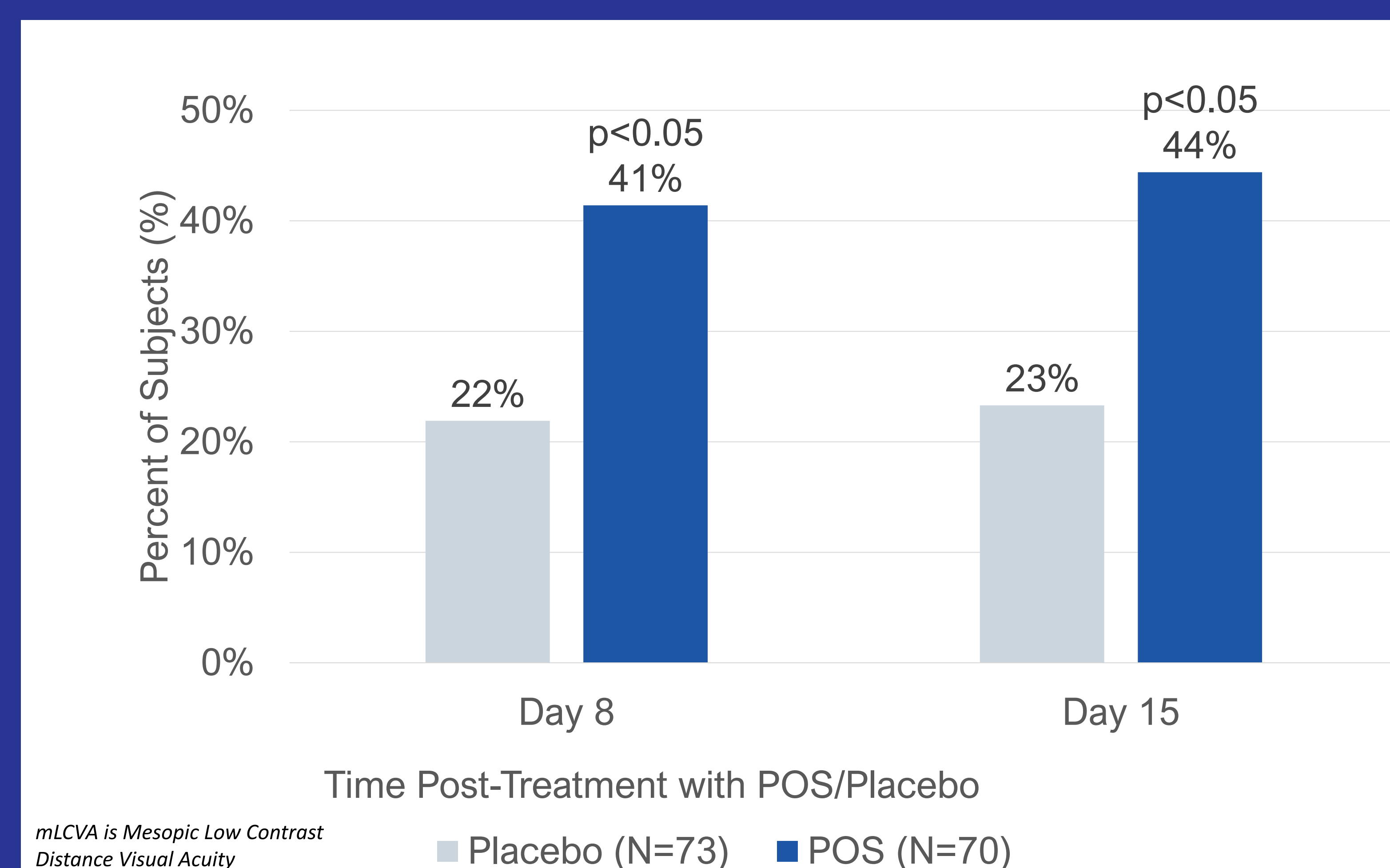
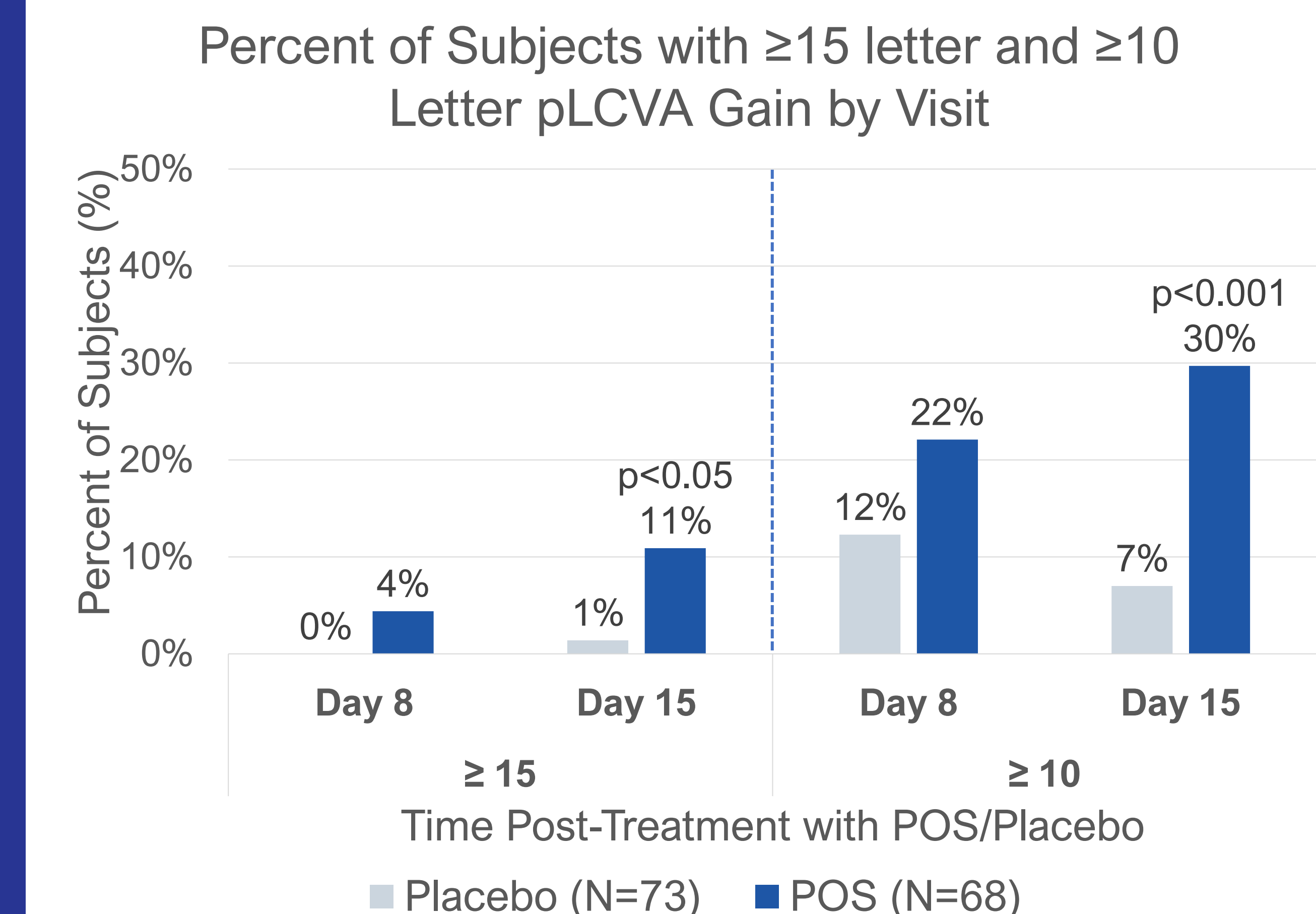


Figure 2: Percent of Subjects with ≥ 10 Letter Improvement in mLCVA Study Eye (mITT)



Presenter Info: Jay Pepose, MD, PhD | jpepose@peposevision.com

Figure 3: Improvement in Photopic Low Contrast Distance Vision (pLCVA) in Study Eye (mITT)



EFFICACY RESULTS

- POS met primary endpoint at Day 8 with 13% of subjects gaining ≥ 15 letters of mesopic LCVA vs. 3% on placebo ($p < 0.05$)
- POS efficacy increased after 14 days of evening dosing, with 21% responders compared to 3% on placebo ($p < 0.01$) gaining ≥ 15 letters in mLCVA
- POS statistically significantly reduced pupil diameter by an average of ~ 1 mm on Day 8 and Day 15 compared to placebo ($p < 0.0001$)
- POS demonstrated significant improvements in photopic low contrast distance vision band a benefit in mesopic high contrast near vision

SAFETY RESULTS

- No serious adverse events
- AEs were uncommon and primarily mild
 - Instillation site pain (13%)
 - Instillation site irritation (9%)
 - Conjunctival hyperemia (9%)
 - Dysgeusia (11%)
- No headaches or browaches
- No tachyphylaxis
- No change in vital signs or intraocular pressure

NEXT STEPS

- With these positive LYNX-1 Phase 3 results, a second Phase 3 trial is planned to support an sNDA submission for POS in DLD indication