

NCC 'FUTURE GENERATION 2024' POSTER Abstracts SCIENTIFIC SESSION IN COOPERATION WITH THE BCLA

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POSTER Abstracts

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Clinical Performance Evaluation of Two Daily Disposable Toric Soft Contact Lenses - Verofilcon A versus Etafilcon A Lakshman Subbaraman, Bradley Hines, Brenda Edwards, Mark Perry, John Capellani

Purpose: To evaluate clinical performance of verofilcon A and etafilcon A daily disposable toric soft contact lenses. **Method**: In a prospective, doublemasked, controlled, crossover, multicenter study, successful toric soft contact lens wearers were randomized to wear verofilcon A toric or etafilcon A toric lenses bilaterally (8-11 days). Primary endpoint: distance visual acuity (VA, logMAR) at week 1. Other endpoints: subjective ratings for overall preference at study end; insertion handling, insertion comfort, and overall comfort at 16 hours; lens settling time at dispense; absolute axis orientation at 10 minutes and week 1; percent of lenses with axis orientation at 10 minutes and week 1; lens movement and position at week 1; and safety.

Results: Of 114 subjects randomized (mean±SD age: 32.3±10.1 years), 112 completed the study. Verofilcon A toric lenses were noninferior to etafilcon A toric lenses for VA at week 1 (-0.08±0.08 vs -0.07±0.07 logMAR). Among subjects reporting preference, 63.3% preferred verofilcon A (p=0.0035). Verofilcon A (vs etafilcon A) toric lenses had significantly higher ratings (p≤0.0002) for insertion handling, insertion comfort, and overall comfort at 16 hours. Lens settling time for verofilcon A (vs etafilcon A) toric lenses

was 26.9±24.5 (vs 27.6±25.7) seconds at dispense. Verofilcon A (vs etafilcon A) toric lenses had absolute axis orientation of 1.9°±3.5° (vs 2.5°±4.2°) at 10 minutes; 2.4°±6.5° (vs 2.8°±5.5°) at week 1. Both toric lenses oriented within ±30° from intended axis (at 10 minutes/week 1: verofilcon A toric: 100%/99.6%; etafilcon A toric: 100%/99.1%). All lenses had optimal/acceptable movement and centration. No ocular serious adverse events were reported. All biomicroscopy findings graded 0-2.

<u>Conclusions</u>: Verofilcon A toric lenses were noninferior to etafilcon A toric lenses for VA. Verofilcon A toric performed better than etafilcon A toric lenses for overall preference, comfort, and handling. Both lenses had optimal alignment, fit characteristics, and comparable safety.

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