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Organization Section: NCC/ BCLA
Poster Abstracts
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Clinical performance and safety comparison between two commercially available daily disposable silicone hydrogel toric contact lenses

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Purpose: To evaluate the clinical performance and safety profiles of two daily disposable toric soft contact lenses (SCLs), verofilcon A and stenfilcon A
Method: A prospective, randomized, controlled, double-masked, multicenter US study (NCT05483127) involving habitual toric SCL wearers aged ≥18 years. Subjects randomized to wear verofilcon A or stenfilcon A bilaterally for 8-11 days and then crossed-over to alternative lenses. Distance visual acuity (VA, logMAR; noninferiority margin=0.05), Likert ratings for "my lenses felt comfortable all day" at 16 hours, "I felt the need to rub or massage my eyes while wearing lenses" and "my lenses were not a distraction as (when) I was performing all my usual activities" at 12 hours, lens movement/position, surface (wettability, front/back surface deposits) were assessed at week 1. Safety outcomes included adverse events (AEs), biomicroscopy findings, and device deficiencies
Results: 152 subjects were randomized (34.4±9.0 years). At week 1, verofilcon A was noninferior to stenfilcon A for distance VA (-0.11±0.07 vs -0.10±0.07; 95% UCL of LSM difference: -0.00). After 16 hours, more subjects wearing verofilcon A (53.7%) vs. stenfilcon A (43.6%) strongly agreed/agreed lenses felt comfortable all day (p=0.0165). After 12 hours, 77.6% of verofilcon A lens wearers rarely felt the need to rub their eyes, and 74.3% strongly agreed/agreed lenses were not a distraction during usual activities. All lenses (100%) showed optimal/acceptable movement and centration. Verofilcon A (86.4%) and stenfilcon A (85.4%) graded 0 for wettability and surface deposits (front/back: 88.7%/95.4%; 86.1%/94.0%). No serious AEs reported. Biomicroscopy findings were trace or mild (grade 1 or 2). No device deficiencies resulted in adverse device effects
Conclusions: Verofilcon A toric SCLs were noninferior to stenfilcon A for distance VA at week 1. At 16 hours, verofilcon A lenses had higher subjective comfort ratings. At week 1, both SCLs demonstrated optimal movement/centration, wettability, and comparable safety profiles

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