

NCC 'GET CONNECTED 2026'

Organization Section: NCC/ BCLA

Poster Abstracts

Sunday 8 March 2026, Netherlands, Veldhoven, NH De Koningshof, Baroniezaal

Clinical evaluation of serafilcon A toric soft contact lens: performance and comfort after 16 hours of wear with a new 1-week replacement lens

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Purpose: Serafilcon A toric lens is a new 1-week replacement toric soft contact lens (SCL) with Activ-Flo® system, a unique combination of water-loving moisturizing agent embedded in lens matrix and a proprietary replenishing agent which continuously releases moisture on the surface for 7 days. This study assessed the on-eye stability of lens rotation, and lens wear comfort of serafilcon A toric lens at Week-1 and over 16 hours of wear.

Method: This prospective, double-masked, bilateral, dispensing clinical study (NCT05888519), included habitual toric SCL wearers aged ≥ 18 years. Endpoints evaluated were: axis orientation at 2 minutes after lens insertion at dispense and at Week-1; Eye care practitioners (ECP) reported Ease of fit (1-10 rating scale) and first fit success; and visual acuity (VA; logMAR) at Week-1. Visual Analog Scale (VAS) ratings for comfort, vision, overall impression, and ease of lens insertion and removal were recorded at Week-1, 16 hours post-insertion on a scale from 0 (unacceptable/extremely poor) to 100 (excellent).

Results: Of the 92 participants, 59.8% were female with mean age of 32.3 years (range 18-61 years). Mean (Standard deviation [SD]) axis orientation was 1.9 (5.0) degrees and 2.2 (3.5) degrees within 2-minutes of insertion at dispense and at Week-1, respectively. ECPs reported 100% first lens fit success rate with a mean (SD) ease of fit rating of 9.7 (0.6). Mean (SD) logMAR distance VA at Week-1 for serafilcon A toric lenses was -0.09 (0.08). At Week-1, after 16 hours wear mean (SD) VAS ratings for comfort, vision, overall impression, ease of lens insertion and ease of removal of lenses were 79.2 (19.0), 82.0 (16.6), 80.9 (18.2), 93.6 (8.7) and 91.7 (12.1), respectively.

Conclusions: The new serafilcon A toric lens demonstrated ideal fit, excellent stability and comfort even after long wear time. These weekly lenses offer ECPs a reliable and easy-to-fit SCL toric option.

This research received funding from: Study was funded by Alcon.