

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

NCC 'Future generation 2024'
Organization Section: NCC/ BCLA
POSTER Abstracts

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Clinical Performance of Verofilcon A Versus Nesofilcon A Daily Disposable Soft Contact Lenses

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Purpose: To evaluate objective and subjective clinical performance of commercially available verofilcon A and nesofilcon A soft contact lenses (SCLs). Method: A prospective, randomized, controlled, double-masked, daily wear, multicenter study conducted in the US. Eligible subjects were randomized to wear verofilcon A or nesofilcon A SCLs bilaterally (≥10 hours/day, 8-11 days), and crossed-over to alternate lens. Primary endpoint: distance visual acuity (VA; noninferiority margin=0.05 logMAR) at week 1. Other endpoints: subjective visual analog scale (VAS) ratings for comfort, vision, and overall impression at 16 hours; Likert ratings for lens comfort, vision, and moistness at 16 hours, and freedom to enjoy activities at 12 and 16 hours; and lens fit and surface characteristics at week 1. Overall preference evaluated at study

Results: Overall, 126 subjects completed the study (mean±SD age: 32.4±7.8 years; female: 66.7%). Verofilcon A was noninferior to nesofilcon A for distance VA at week 1 (mean±SD logMAR: -0.13±0.08 vs -0.13±0.07). Verofilcon A had significantly higher VAS ratings than nesofilcon A for comfort (77.9±18.7 vs 63.7±26.8), vision (84.1±15.6 vs 76.4±21.4) and overall impression

(80.5±17.3 vs 68.9±24.9) at 16 hours (all p≤0.0001). More subjects with verofilcon A than nesofilcon A provided strongly agreed/agreed responses for comfort, vision, and moistness with SCLs at 16 hours (all p≤0.0051). Subjects with verofilcon A strongly agreed/agreed that "lenses comfortably gave them freedom to enjoy activities all day" at 12 hours (83.3%) and 16 hours (77.6%). Most lenses had optimal movement and centration, and grade 0 surface wettability/deposits at week 1. Among subjects reporting preference, 73% preferred verofilcon A (p<0.0001). Conclusions: Verofilcon A was noninferior to nesofilcon A for distance VA at week 1. Verofilcon A had higher subjective ratings than nesofilcon A for comfort, vision, moistness, and overall impression over 16 hours. Most lenses had optimal fit, and clean wettable surface at week 1. Research funding received: This study was funded by Alcon.

