

NCC 'FUTURE GENERATION 2024' POSTER Abstracts
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NCC 'Future generation 2024'

Organization Section: NCC/ BCLA

POSTER Abstracts

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Initial market experiences' analysis of a novel myopia management toric soft contact lens

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Purpose: Before fully commercializing an extended depth of focus (EDOF) Toric contact lens for myopia management, data from different sites across different countries was analysed.

The purpose of this study was to evaluate the objective and subjective performance of a novel EDOF toric myopia management contact lens.

Method: Retrospective analysis.

Data from 44 centers across 6 countries (Italy, Netherlands, Spain, France, UK and Germany) and 44 contact lens wearers was analysed.

Lenses were calculated from biometric data (k-readings, corneal eccentricity, horizontal iris visible diameter, updated spectacle refraction) following the recommended fitting guide. Exchanges were made where necessary to optimize fitting and vision.

After one month of wear photopic mono and binocular high contrast LogMAR visual acuity (HCVA) were measured at distance and wearers were asked if they preferred the lenses over their previous correction method, including strength preference, a relative analogue scale (RAS).

Results: Contact lens spheres comprised from -0.25 until -10D and cylinders up to -3D.

HCVA results of 26 patients were monocularly 0.01 ± 0.06 and -0.02 ± 0.08 binocularly.

Exchanges were needed in 25 (28%) eyes.

The most common modification was sphere (32%). 11 modifications were due to axes (16% of the total).

1 wearer (2%) dropped out.

After a month of wear 82% of the patients preferred the novel toric lenses compared to their previous correction with a preference strength of 4.7/5 in the RAS.

Conclusions: The EDOF Toric myopia management lens evaluated delivered good visual acuity and was well accepted for the majority of wearers.

This lens can be an appropriate solution for toric patients in which myopia is progressing.

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