

**NCC 'GET CONNECTED 2026'**

**Organization Section: NCC/ BCLA**

**Poster Abstracts**

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**Visual performance with daily disposable multifocal and multifocal toric contact lenses**

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**Purpose:** The design validation studies for a multifocal soft contact lens (CL) and a multifocal toric CL that share the same material and multifocal optics design hypothesized that distance visual acuity (VA) would be significantly better than 0.00 logMAR (6/6 Snellen), while intermediate and near VA would be significantly better than 0.17 logMAR (6/9 Snellen).

**Method:** A total of 171 subjects with astigmatism of -1.00 diopter (D) to -1.75D with axes 90±15 or 180±15 degrees were fit with a multifocal toric CL in a multi-site prospective single-arm, open-label clinical trial. In a similar but separate study, a total of 136 participants with up to 0.75 D astigmatism at any axis were fit with the multifocal CL.

The multifocal toric CL had sphere powers of -1.00D to -4.00D and +1.00D to +4.50D, and a single cylinder power of -1.00D with axes 90±10 and 180±10 degrees. The multifocal CL had sphere powers from -1.00D to -6.00D and +0.50 to +3.50D.

Both studies had 3 scheduled visits: fitting, first follow-up (3 days for multifocal, 1 week for multifocal toric), and second follow-up 1 week later. The primary outcome measures were binocular logMAR VA at distance (4 m), intermediate (64 cm), and near (40 cm).

**Results:** All VA hypotheses were supported by demonstrated statistical significance for both studies. Additionally, the logMAR VA for the multifocal and multifocal toric were within one letter (less than 0.02 logMAR difference).

**Conclusions:** A multifocal CL worn by a population with 0 to 0.75 D astigmatism and a multifocal toric CL with 1.00 D cylinder correction worn by a population with 1.00 to 1.75 D refractive astigmatism were found to provide similar VA and subjective vision outcomes. The new multifocal toric therefore extends the coverage by daily disposable multifocal CL to a new population of presbyopic wearers.

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