

Visual performance of a new segmented asymmetric multifocal intraocular lens

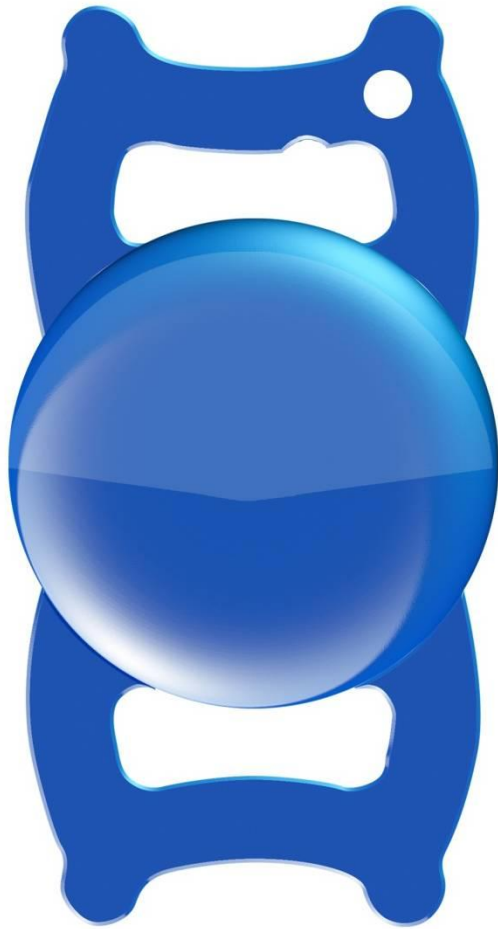
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Study sponsored by Lenstec
SS is a consultant to Lenstec

Segmented, Asymmetric Multifocal IOL (Lenstec)

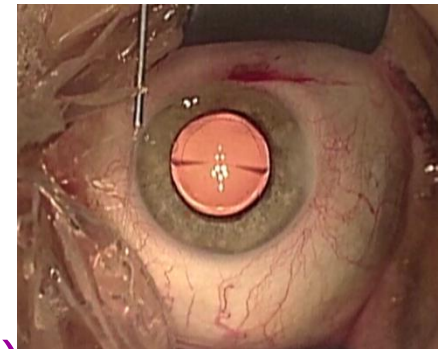


Lens Feature	Specifications
Optic Size	5.75 mm
Optic Type	Equiconvex
Haptic Type	Closed loop/modified plate
Add power	+3.00D at the IOL plane
Length	11.00 mm
Angulation	0 Degrees
Construction	1 Piece
Optic Material	Hydrophilic acrylic (26% water content)
Haptic Material	Hydrophilic acrylic (same as optic)
A Constant*	118.43 mm**
A/C Depth*	5.10 mm

Purpose: To evaluate the visual performance of patients implanted with a new bi-aspheric, +3D non-blended segment, multifocal intraocular lens (IOL) available in quarter diopter powers.

Methods

- ▶ Patients (average age 62.2 ± 11.1 years) monocularly (n=7) or binocularly (n=10) implanted with the SBL-3 MIOL.
- ▶ Follow-up 3 months
 - ▶ UCVA
 - ▶ Refraction
 - ▶ BCDVA
 - ▶ BDCIVA
 - ▶ BDCNVA
 - ▶ Contrast sensitivity (Pelli-Robson chart)
 - ▶ Defocus curves (+1.50 to -5.00D, 0.5D steps, letters randomization)
 - ▶ Halometry (Aston App - 45° meridians)

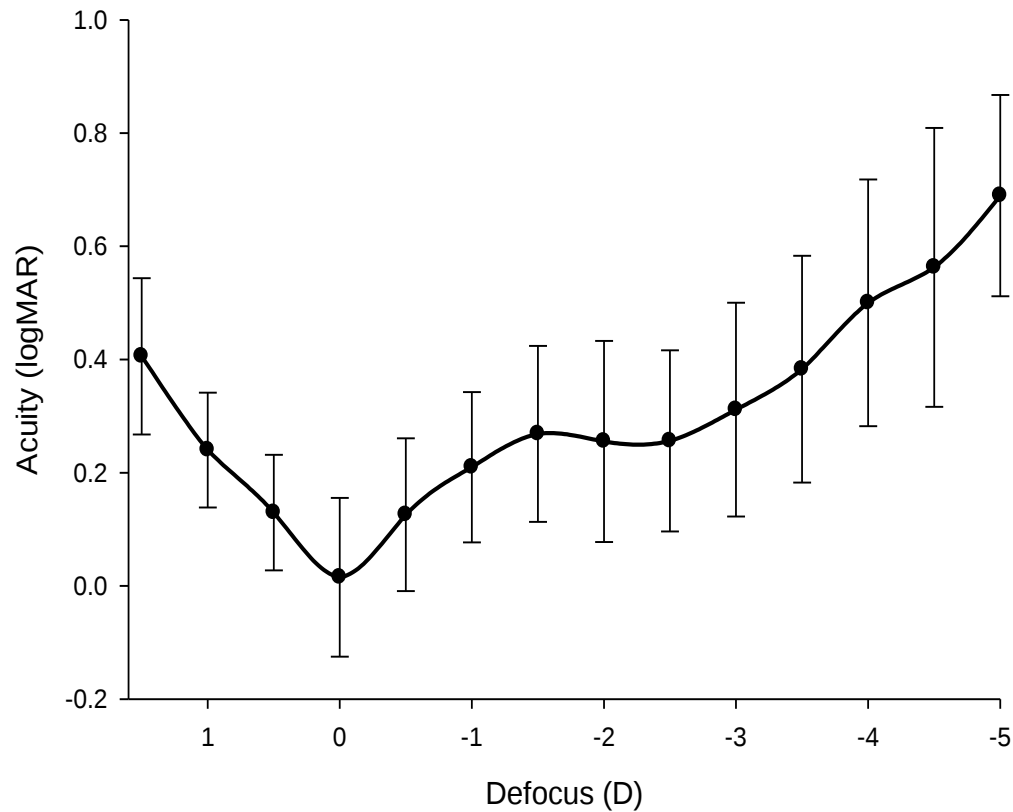


Results

- ▶ Residual Rx $0.01 \pm 0.47D$
 - ▶ $67\% \pm 0.25D$
 - ▶ $81\% \pm 0.50D$
- ▶ UCDVA $0.07 \pm 0.14 \log MAR$
- ▶ Mean UCNVA = J3
- ▶ Contrast sensitivity good
 - ▶ $1.66 \pm 0.13 \log \text{ units}$

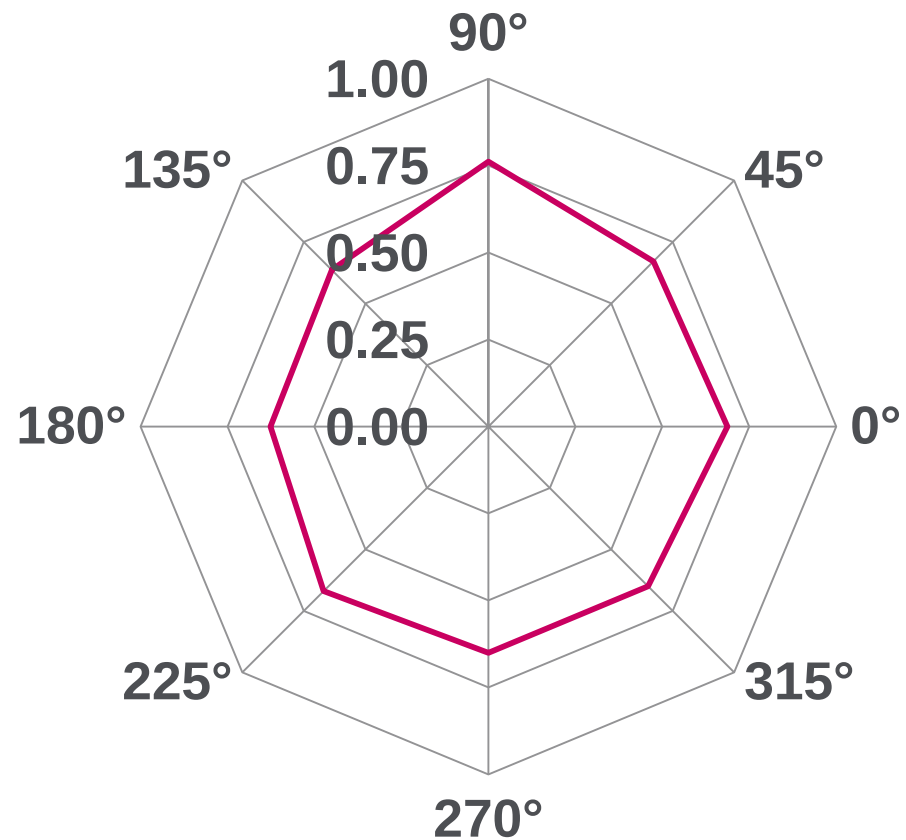
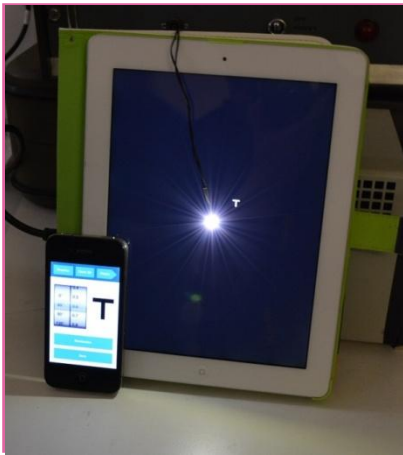


Results: defocus curve



Results

- Halometry:
<1° debilitating
light scatter



Conclusion

This new aspheric segmented IOL provides a good visual outcome at distance and near with minimal dysphotopsia.