

# Clinical Outcomes With a New Continuous Range of Vision Presbyopia-Correcting Intraocular Lens

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## Objectives

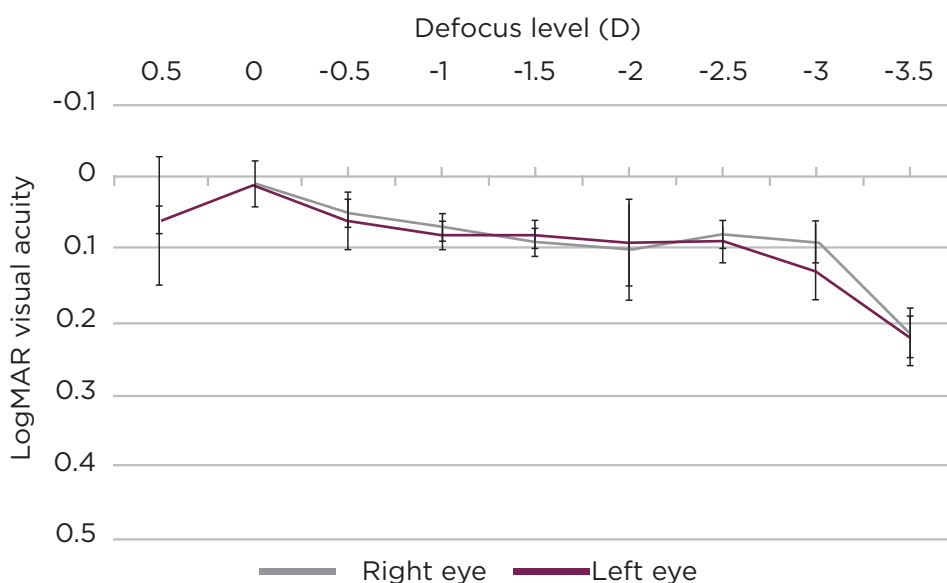
To evaluate the clinical outcomes including patient-reported outcome measures in a sample of eyes undergoing bilateral cataract surgery with implantation of a new model of presbyopia-correcting intraocular lens (IOL).

## Study Design

This non-randomized prospective case series enrolled 206 eyes of 103 patients undergoing phacoemulsification cataract surgery with bilateral implantation of the **TECNIS Synergy**® IOL (Johnson & Johnson Vision). High and low contrast visual acuity, refractive, defocus curve, and patient-reported visual performance (Catquest-9SF questionnaire) outcomes were evaluated during a 3-month follow-up.

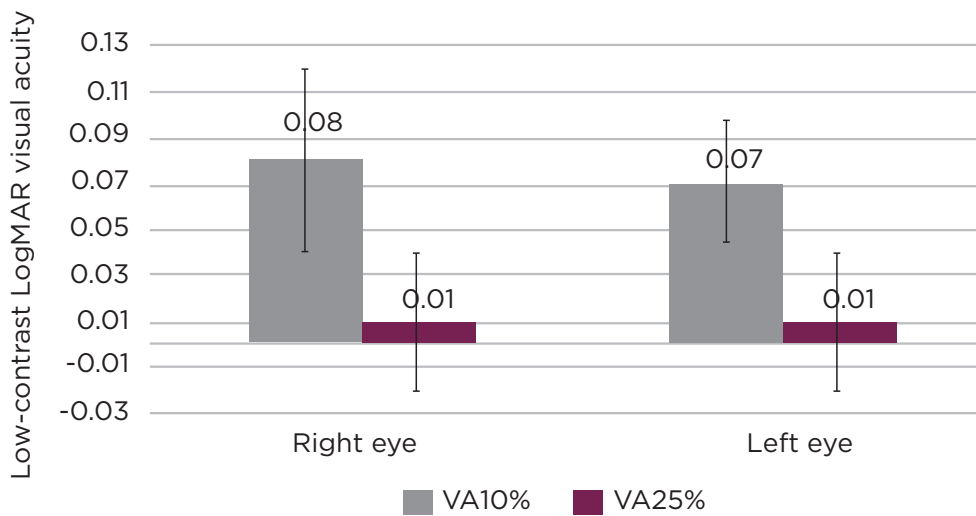
## Patient Selection

Key factors for patient selection were the following: motivation, patients requesting presbyopia correction, stable and good tear film, scotopic pupil size of less than 6 mm, no pathology associated, and acceptance of the limitations of the technology in the worst-case scenario (photoc phenomena).



**Flat curve is obtained, with visual acuities between 0.00 (20/20) and 0.10 (20/25) logMAR for most defocus levels in both eyes.**

Mean defocus curve obtained at 3 months after surgery in right and left eyes patients enrolled in the study. D = diopters.



Distance visual acuity (VA) threshold measured for contrasts of 10% and 25% at 3 months after surgery in right and left eyes of patients enrolled in the study.

## CONCLUSIONS:

- The **TECNIS Synergy**<sup>®</sup> IOL provides an effective visual rehabilitation, with a continuous range of focus across distances that are commonly used in our daily life and minimal incidence of photic phenomena
- Continuous range of focus may be the main reason explaining the great subjective improvement reported by the patient as evaluated with the Catquest-9SF questionnaire
- Low contrast monocular UNVA was also found to be in levels of photopic values reported for other multifocal IOLs
- Patient counseling and patient selection is crucial

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