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Clinical results of trifocal intraocular lenses following femtosecond laser-assisted cataract surgery

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Purpose: To evaluate the clinical outcomes of trifocal intraocular lenses (IOL) following femtosecond laser-assisted cataract surgery at 3 months follow up.

Methods: 40 eyes of 20 cataract patients were included in this study. Anterior capsulotomy, lens fragmentation and corneal incision were created by femtosecond laser (LenSx® Laser System; Alcon). The eyes with corneal astigmatism of less than 1 D received trifocal IOL (POD F: PhysIOL) and the eyes with corneal astigmatism over 1 D received trifocal toric IOL (POD FT: PhysIOL). Visual acuities (VAs) of distance, intermediate and near, contrast sensitivity and spectacle dependency were evaluated at 3 months postoperatively.

Results: Mean uncorrected distance VA was -0.05 ± 0.12 logMAR, VA at 70 cm was 0.05 ± 0.12 logMAR, VA at 50 cm was 0.10 ± 0.14 logMAR and VA at 40 cm was 0.10 ± 0.17 logMAR. Mean contrast sensitivities were within normal range. None of the patients required spectacles.

Conclusion: Implantation of trifocal IOL following the femtosecond laser-assisted cataract surgery provides preferable VAs from distance to near and provides spectacle independency.

Biography

Hiroko Bissen-Miyajima is the Director and Professor of Ophthalmology at Tokyo Dental College, Suidobashi Hospital in Tokyo, Japan. She specializes in cataract and refractive surgery. In her 30 years career, she has built a reputation as a skillful surgeon, well known around the globe as a major investigator for multifocal intraocular lenses and for leading the way for femtosecond laser-assisted cataract surgery. She is a regular Reviewer for several prestigious medical journals and hold Membership in many professional medical associations. She is the President of the Japanese Society of Cataract and Refractive Surgery, past President and 2013 Medal Awardee of International Intraocular Implant Club.

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