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# Visual Outcome and Patient Satisfaction of Low-Power-Added Multifocal Intraocular Lens

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Article

[Abstract](#)

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**Purpose:** To evaluate visual outcome and patient satisfaction following implantation of multifocal intraocular lenses (IOLs) with a +1.5 diopters (D) addition compared with monofocal IOLs.

**Methods:** This prospective, nonrandomized, comparative case series involved 48 eyes (24 patients) who underwent cataract surgery with implantation of low-power-added multifocal IOLs (LS313-MF15; multifocal group) and 48 eyes (24 patients) with conventional monofocal IOLs (CTS204; monofocal group). Visual acuity (VA), defocus curves, refraction, contrast sensitivity, glare, ocular optical quality, and scores in questionnaire were assessed 6 months postoperatively.

**Results:** Uncorrected VA at intermediate and near distance tended to be better in the multifocal group, with significant

differences at 50 cm ( $P=0.03$ ). The defocus curve showed significantly different VA at vergences of  $-1.5$  and  $-2.0$  D ( $P=0.02$  and  $P=0.03$ , respectively). Results of postoperative refraction, contrast sensitivity, glare, and optical quality were similar ( $P>0.05$ ), although coma-like aberration was higher in the multifocal group ( $P=0.04$ ). Despite of similar levels of visual disturbances ( $P>0.05$ ), disturbances in activities and spectacle use at intermediate working distance were significantly less frequent in the multifocal group ( $P=0.03$  and  $P=0.04$ , respectively). Multifocal group showed significantly greater overall satisfaction ( $P=0.02$ ).

**Conclusions:** Low-power-added multifocal IOLs yielded better intermediate and near vision without increasing optical phenomena compared with monofocal IOLs.

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