Effect of position of near addition in an asymmetric refractive multifocal intraocular lens on quality of vision

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Resumen

PURPOSE: To evaluate the impact of the position of an asymmetric multifocal near segment on visual quality.

SETTING: Cathedral Eye Clinic, Belfast, United Kingdom.

DESIGN: Retrospective comparative case series.

METHODS: Data from consecutive patients who had bilateral implantation of the Lentis Mplus LS-312 multifocal intraocular lens were divided into 2 groups. One group received inferonasal near-segment placement and the other, superotemporal near-segment placement. A +3.00 diopter (D) reading addition (add) was used in all eyes. The main outcome measures included uncorrected distance visual acuity (UDVA), uncorrected near visual acuity (UNVA), contrast sensitivity, and quality of vision. Follow-up was 3 months.

RESULTS: Patients ranged in age from 43 to 76 years. The inferonasal group comprised 80 eyes (40 patients) and the superotemporal group, 76 eyes (38 patients). The mean 3-month spherical equivalent was -0.11 D +/- 0.49 (SD) in the inferonasal group and -0.18 +/- 0.46 D in the superotemporal group. The mean postoperative UDVA was 0.14 +/- 0.10 logMAR and 0.18 +/- 0.15 logMAR, respectively. The mean monocular UNVA was 0.21 +/- 0.14 logRAD and 0.24 +/- 0.13 logRAD, respectively. No significant differences were observed in the higher-order aberrations, total Strehl ratio (point-spread function), or modulation transfer function between the groups. Dysphotopic symptoms measured with a validated quality-of-vision questionnaire were not significantly different between groups.

CONCLUSION: Positioning of the near add did not significantly affect objective or subjective visual function parameters. (C) 2015 ASCRS and ESCRS

Palabras clave

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Editorial

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