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Cataract

PP268

First European Comparatives Clinical Results for a Violet Light Filtering Trifocal IOL

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Purpose:

The goal was to compare a new trifocal MIOL with violet light filter with well-established trifocal MIOL (LISA, CZM und Panoptix, Alcon).

Setting:

All surgeries were performed by one surgeon at the Breyer-Kaymak-Klabe Eye Surgery and Premium Eyes in Duesseldorf, Germany, member of the International Vision Correction Research Center (IVCRC.net).

Methods:

20 eyes of 10 patients with cataract and expected postoperative corneal astigmatism of under - 0.75D were included. In all eyes, a new hydrophobic diffractive refractive aspheric trifocal MIOL with violet light filter (Optiflex Trio; Biotech, India) was implanted. We assessed subjective refraction, monocular uncorrected and best distance corrected visual acuity for far, intermediate and near distances, and monocular defocus capacity after 3 months postoperatively. Halo and Glare phenomena were documented in a patient questionnaire.

Results:

The defocus curve showed comparable far, intermediate and near vision to both well-established trifocal MIOL. Evaluation of the patient questionnaire also indicated similar halo & glare phenomena like in patients with both comparative trifocal MIOL.

Conclusions:

The visual outcome of Optiflex Trio was comparable to both well-established trifocal MIOL. The defocus capacity of this violet light filtering trifocal MIOL is more like that of Panoptix. Optiflex Trio is an interesting alternative to LISA and Panoptix.