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## Manuscript Title:

Secondary positioning of rotationally asymmetric refractive multifocal intraocular lens in a patient with glaucoma: a case report

## Date of Revision:

April 18, 2021

### Abstract:

#### BACKGROUND

Asymmetric multifocal intraocular lenses (IOLs) are now widely used in the modern cataract surgery, providing a good level of visual performance over a range of distances and high postoperative patient satisfaction. We report a case of improved visual quality after shifting the near segment of an asymmetrical multifocal intraocular lens (IOL) to the superotemporal placement in the dominant eye of a glaucoma patient.

#### CASE SUMMARY

A 72-year-old woman with bilateral glaucoma underwent phacoemulsification in dominant eye (left eye) with implantation of an asymmetrical multifocal IOL. Postoperative uncorrected distance visual acuity (UDVA) was 0.0 logMAR (20/20 Snellen) and uncorrected near visual acuity (UNVA) was 0.1 logMAR (20/25 Snellen). Two weeks later, the patient presented to our clinic with decreased vision due to migration of lens epithelial cells to IOL anterior surface and edema of corneal endothelium cells. Anterior capsule polishing and superotemporal placement of near segment (+3.00 diopter [D] addition [add]) of IOL were performed, as a result, UDVA at the first week and first year after reposition was 0.0 logMAR (20/20 Snellen), and compared with 0.3 logMAR (20/40 Snellen) in the first week, the UNVA was improved to 0.0 logMAR (20/20 Snellen) one year after surgery.

#### CONCLUSION

The postoperative inflammatory reaction and lens epithelial cells proliferation were obvious in this glaucoma patient. Capsule polishing and rotation of the lens were beneficial to the patient, which not only enhanced the patient's vision, but also improved the patient's satisfaction. There, glaucoma patients need to be cautious of implanting multifocal IOLs. Placement of a near segment of an asymmetrical multifocal IOL in the dominant eye should be performed on an individual basis.

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