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Comparison of visual outcomes and rotational stability following implantation of two different toric intraocular lenses

Poster Details

First Author: D.Rathod *INDIA*

Co Author(s): S. Ganesh S. Brar

Abstract Details

Purpose:

To compare the visual outcomes and rotational stability in patients who have undergone phacoemulsification followed by implantation of two different intraocular lens.

Setting:

Nethradhama Superspeciality Eye Hospital, Bengaluru, India

Methods:

It is a retrospective study which includes 100 eyes of 67 patients with regular corneal astigmatism between 1.00 and 3.00 diopters (D) who have undergone phacoemulsification followed by implantation of either Eyecryl Toric IOL or Tecnis Toric IOL (i.e 50 eyes with Eyecryl Toric IOL and 50 eyes with Tecnis Toric IOL) using an intra-op image guided markerless system (Callisto). Patient's uncorrected (UDVA) and corrected distance visual acuity (CDVA), spherical equivalent refraction, residual astigmatism, and rotational stability of the IOL done at the 2 week and 3 months follow up were analysed. Rotational stability was checked using iTrace.

Results:

At 2 weeks and at 3 months post-op, there was no statistically-significant difference between the UCVA, BCVA, and residual astigmatism between the two groups. The rotational stability was similar in both groups with neither group showing a post op rotation of more than 10 degrees. IOL misalignment in the Eyecryl Toric was 4.97 +/-4.5 degrees and 5.4 +/-4.4 degrees, whereas that in the Tecnis Toric group was 5.2 +/-4.3 degrees and 5.8 +/-4.7 degrees at 2 weeks and 3 months respectively which were statistically insignificant.

Conclusions:

At 3 months, patients in both groups had good postoperative outcomes in terms of UDVA, CDVA, and low residual astigmatisms. Both IOLs showed excellent rotational stability and patient satisfaction.

Financial Disclosure:

None

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ESCRS, Temple House, Temple Road, Blackrock, Co Dublin, Ireland
Phone: +353 1 2091100 Fax: +353 1 2091112 Email: escrs@escrs.org