

Refractive

PP663

A comparison of two foldable phakic intraocular lenses implanted in different anatomical compartments: Artiflex versus Eyecryl

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Purpose:

To compare refractive results and safety of Artiflex and Eyecryl phakic intraocular lenses (pIOL)

Setting:

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Methods:

Medical records of patients who underwent implantation of Artiflex and Eyecryl pIOL were retrospectively reviewed. Patients with a follow up of 3 years were included in the study. Manifest refractive error, uncorrected and corrected visual acuities, intraocular pressure (IOP) and central endothelial cell density (ECD) were evaluated preoperatively and at 1-, and 3- years after surgery.

Results:

79 eyes (Artiflex group: 35 eyes; Eyecryl group: 44 eyes) were included in the study. Preoperative spherical equivalent (SE) of manifest refractive error was -11.53 ± 3.46 and -13.08 ± 3.01 in Artiflex and Eyecryl groups, respectively. Three years after the efficacy index was 1.06 ± 0.55 and 1.15 ± 0.85 ; the safety index was in 1.32 ± 0.49 and 1.46 ± 0.95 in Artiflex and Eyecryl groups, respectively. SE, efficacy index, safety index UDVA, CDVA, IOP, and ECD were not significantly different between the groups during follow-up.

Conclusions:

Both foldable pIOLs were found safe and effective up to 3 years after implantation. Prospective longitudinal studies are needed to reveal and compare rates of cataract formation.