

# **Intrascleral fibrin glue intraocular lens fixation combined with Descemet-stripping automated endothelial keratoplasty or penetrating keratoplasty.**

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Publication Date: 2012

## **Abstract:**

**Purpose:** To evaluate the outcomes of intrascleral haptic fixation of an intraocular lens (IOL) with fibrin glue combined with penetrating keratoplasty (PKP) or Descemet-stripping automated endothelial keratoplasty (DSAEK) for aphakic or pseudophakic bullous keratopathy (BKP). **Setting:** Rajendra Prasad Centre for Ophthalmic Sciences, All India Institute of Medical Sciences, New Delhi, India. **Design:** Case series. **Methods:** Eyes with BKP had combined PKP or DSAEK with fibrin glue-assisted intrascleral posterior chamber (PC) IOL fixation; PKP was performed in eyes with a corneal scar and DSAEK in eyes without a scar. The parameters evaluated were corrected distance visual acuity (CDVA), anterior segment biomicroscopy, intraocular pressure, central corneal thickness (CCT), and IOL status. Intraoperative events and postoperative complications were recorded. **Results:** The study evaluated 11 patients (11 eyes). Intrascleral fixation of a PC IOL with PKP or DSAEK was successfully performed in all eyes; PKP was performed in 6 eyes (54.54%) and DSAEK in 5 eyes. The mean CDVA improved from 1.95 logMAR  $\pm$  0.29 (SD) to 0.40  $\pm$  0.16 logMAR ( $P < .001$ ). The mean CCT was 0.741  $\pm$  0.71 mm preoperatively and 0.579  $\pm$  0.20 mm postoperatively ( $P < .001$ ). There were no cases of intraoperative or postoperative IOL decentration or other complications. **Conclusions:** Fibrin glue-assisted intrascleral fixation of a PC IOL combined with DSAEK or PKP was a safe, effective method to manage BKP with aphakia or malpositioned IOLs. The IOL fixation was strong enough to sustain the manipulation required for corneal procedures. © 2012 ASCRS and ESCRS.