

Glued posterior chamber IOL in eyes with deficient capsular support: A retrospective analysis of 1-year post-operative outcomes.

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Abstract:

Purpose To evaluate the post-operative outcome of fibrin glue-assisted posterior chamber intraocular lens (IOL) implantation in eyes with deficient capsular support after 1 year. **Methods** Eyes operated with fibrin glue-assisted posterior chamber IOL implantation from December 2007 to May 2008 were included. The post-operative best spectacle-corrected visual acuity (BCVA), uncorrected visual acuity (UCVA), intraocular pressure (IOP), central macular thickness, and specular count were evaluated. IOL position and centration at 1 year was determined. The 1-year post-operative complications were analysed. **Results** A total of 53 eyes of 53 patients were analysed. There was significant improvement in UCVA ($P=0.000$) and BCVA ($P=0.000$). There was no significant change ($P=0.447$) in IOP from the pre-operative value. The early post-operative complication was decentration (5.6%). The late complication was pigment dispersion (3.7%) and healed macular oedema (7.5%). No vision threatening complications such as retinal break, retinal detachment, or endophthalmitis were seen. The percentage (%) loss of endothelial cells was $5.23\pm 3.4\%$ at 1-year follow-up. No pseudophakodonesis was seen in the follow-up visits. **Conclusion** Results obtained at 1 year after fibrin glue-assisted posterior chamber IOL implantation showed a good visual outcome with minimal complications in eyes with deficient capsular support.