Glued intraocular lens: a major review on surgical technique and results. [Review]

Authors: Kumar DA, Agarwal A

Publication Date: 2013

Abstract:

PURPOSE OF REVIEW: To review the changes and results of glued intraocular lens (IOL) procedure in eyes with inadequate capsule.

RECENT FINDINGS: The recent review of 735 eyes with glued IOL showed 486 rigid glued IOL, 191 foldable IOL, 10 glued iris prosthesis, 16 eyes with glued IOL with pupilloplasty and 32 eyes with glued IOL with penetrating keratoplasty. The postoperative best corrected visual acuity (BCVA) in eyes with the rigid glued IOL was 0.38 +/- 0.27. There was a significant improvement in BCVA (P = 0.000). The mean postoperative BCVA in foldable glued IOL was 0.39 +/- 0.29. IOL optic-related complications included optic capture and decentration. Haptic-related complications seen are haptic extrusion, haptic dislodgement, broken haptic and subconjunctival haptic. Most of the haptic-related problems are due to improper scleral tucking. The second surgeries in rigid glued IOL included IOL repositioning (2.2%), haptic repositioning (1%), conjunctival peritomy closure (0.8%), posterior segment surgery (1.2%) and IOL explantation (0.4%). The surgical modifications included glued IOL scaffold and vertical glued IOL. Glued IOL, which was combined with corneal procedures such as penetrating keratoplasty, Descemet stripping automated endothelial keratoplasty and Descemet's membrane endothelial keratoplasty, showed good visual and anatomical outcome.

SUMMARY: Glued IOL and its surgical modifications showed good visual outcome with minimal complications in the recent review of its results and complications profile. However, long-term

functional and anatomical outcome has to be observed in future.