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OUTCOMES OF FOUR-POINTS GORETEX SCLERAL FIXATION IN PATIENTS WITH LUXATED 1-PIECE-4-HOLES IOL AND LOW ENDOTHELIAL CELL COUNT

Oral

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Purpose:

Four-points GoreTex scleral fixation (GTSF) is well-known technique. Our aim is to investigate the outcomes in patients with low endothelial cell count (ECC), saving the luxated 1-piece-4-holes IOL.

Methods:

Sixteen eyes of 16 patients were enrolled. Informed consent was signed by all patients. Mean age was 78.8 +/- 4 years. All the patients had 1-piece-4-holes IOL luxation, spontaneously in 8 patients while it was subsequent to a trauma in 8 patients. All the patients had ECC <1500 cc/mm². The patients underwent 23g pars plana vitrectomy, and GTSF of the IOL. Best-corrected visual acuity (BCVA), ECC, refraction in term of spherical equivalent (SE) and complications were evaluated. Follow-up was 6 months.

Results:

Fixation of the IOL was achieved in all patient. BCVA improved significantly from 0.47 +/- 0.24 to 0.74 +/- 0.26 (p = 0.009). ECC changed from 1213.7 +/- 159.1 to 1094.1 +/- 158, not significantly (p = 0.051). Final SE was -1.32 +/- 1.15. No significant complication occurred.

Conclusions:

GTSF is a safe and effective technique in patients with luxated 1-piece-4-holes IOL, particularly in those patients with preoperative low ECC. Further studies are recommended.