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EVALUATION OF CORNEAL ENDOTHELIAL CHANGES SPECULAR MICROSCPOE FOLLOWING AGV IMPLANTATION BY INTRASCLERAL TUBE INSERTION TECHNIQUE IN PATIENTS OF GLAUCOMA: A PILOT STUDY

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OBJECTIVES

1. Evaluation of corneal endothelial changes specular microscpoe following AGV implantation by intrascleral tube insertion technique in patients of glaucoma.
2. To quantify changes in corneal endothelial cell count along with structural changes like polymegathism and polymorphism.
3. To quantify changes in central corneal thickness.

METHODOLOGY

Patients undergoing Ahmed glaucoma valve surgery were included in the study. Preop evaluation included Snellen's visual acquity charts, slit lamp examination, applanation tonometry, goinioscopy specular microscopy and pachymetry. After surgery post op floow up was done on day 1,2, 14, 28 and 06-08 weeks.

RESULTS

Specular count was decreased in all cases post op at 01 and 06 weeks. The change was statistically significant. Pachymetry showed a mild increase in corneal thickness which was statistically significant.

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CONCLUSION

The results of the study compare favourably with previous studies which suggested significant decrease in endothelial cell count and increase in corneal thickness following AGV implantation.