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Long term outcomes of descemet stripping automated endothelial keratoplasty (DSAEK) in eyes with previous glaucoma tube shunt and trabeculectomy surgery

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Methods: This is a retrospective chart review of 35 eyes from 32 patients with previous history of glaucoma surgery that underwent subsequent DSAEK between 2006 and 2011.

Results: Mean age of patients was 71.8±14.3; 15 were female and 17 were male. 16 eyes had previous tube-shunt implantation (group 1), and 19 eyes had previous trabeculectomy (group 2). 2 eyes experienced previous PK for corneal decompensation, and underwent secondary DSAEK surgery (one in each group) and 1 eye underwent repeat DSAEK in group 1. No intra-operative DSAEK procedure complications were encountered in any of the patients. There was no difference in percentage of endothelial rejection, donor detachment, or graft dislocation between groups 1 and 2. Mean pre-operative VA and IOP were 1.4±0.7 logmar and 13.4±3.8 mmHg in group 1 and 1.2±0.7 logmar and 12.8±7.9 mmHg in group 2 (p=0.44). At 6 months, mean post-operative VA and IOP were 0.8±0.7 and 13.8±5.9 in group 1 and 1.0±0.9 and 12.8±6.6 in group 2 (p=0.23 and p=0.31). Furthermore, the average number of glaucoma medications needed to control IOP preoperatively in group 1 was 2.7±1.3 and in group 2 was 1.9±1.6 compared to post-op at 6 months of 1.6±1.4 and 1.3±0.9 respectively (p=0.18 and p=0.08).

Conclusions: There is no statistical significant difference in DSAEK outcomes in patients who underwent trabeculectomy compared to tube shunt implantation. Based on our observations we can suggest that DSAEK is indeed a reasonable option for patients who have undergone glaucoma surgery. Nevertheless we recommend larger studies to determine definitive results.

Biography

Yassine J. Daoud specializes in cataract and refractive surgery, as well as the diagnosis and treatment of corneal disorders including Fuchs dystrophy and keratoconus. Daoud received his M.D. degree from Harvard Medical School and completed an internship at Johns Hopkins Hospital where he was the recipient of the "Best Bedside Skills" Teamwork Award. His ophthalmology residency was completed at Duke University Eye Center and he completed his cornea fellowship at the Wilmer Eye Institute. In addition to his commitment to excellent patient care, Daoud is a published author in multiple ophthalmology journals and is involved in research to improve ocular health.

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