

# Trabeculectomy versus Combined Trabeculectomy and Cataract Surgery in Pseudoexfoliation Glaucoma

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## ABSTRACT

**Aims:** To compare the success rate of trabeculectomy versus combined trabeculectomy plus cataract extraction augmented with 5-Fluorouracil in pseudoexfoliation glaucoma.

**Study Design:** Case control study.

**Methods:** Past records of patients with pseudoexfoliation glaucoma (PXF-G) who had undergone trabeculectomy with 5-Fluorouracil (5-FU) (Group 1) or combined trabeculectomy and cataract extraction (Group 2) with 5-FU were obtained and analyzed. All those patients were included who were stable for at least 6 months before entering into the study. To avoid bias in the results, those patients were excluded who had intraoperative complications like posterior capsular rupture, vitreous loss, zonular dialysis etc. A total of 40 patients were included with 20 in each group. The primary outcome, effect on intraocular pressure (IOP), was compared between the two groups.

**Results:** The Group 1 had significant reduction in IOP ( $p < 0.02$ ) with mean pre-treatment IOP of  $30.72 \pm 7.44$  mm of Hg to final IOP of  $15.30 \pm 5.43$  mm of Hg. Similarly, Group 2 had also significant reduction in IOP ( $p < 0.032$ ) with mean pre-treatment IOP of  $31.20 \pm 7.68$  mm of Hg to final IOP of  $16.01 \pm 5.55$  mm of Hg. When both groups were compared for final IOP, it was not significant ( $p < 0.3$ ). The success rate of group 1 was  $83.5 \pm 5.5\%$  while that of group 2 was  $80.4 \pm 4.3\%$ .

**Conclusion:** Both techniques achieved good IOP reduction and combined trabeculectomy plus cataract surgery with 5-FU is a safe option in patients with PXF-G and cataract. *Al-Shifa Journal of Ophthalmology 2016; 12(3): 131-134. © Al-Shifa Trust Eye Hospital, Rawalpindi, Pakistan.*

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