EFFECT OF BRINZOLAMIDE %1 AND TIMOLOL %0.5 FIXED COMBINATION ON INTRAOCULAR PRESSURE AFTER CATARACT SURGERY WITH PHACOEMULSIFICATION
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PURPOSE: To evaluate the effect of brinzolamide-timolol fixed combination on intraocular pressure (IOP) after phacoemulsification cataract surgery.

SETTING: Department of Ophthalmology, Kırıkkale University Medical School

METHODS: In our prospective randomized study normotensive cataract patients scheduled for phacoemulsification were randomly assigned to 1 of 2 groups. After uneventful phacoemulsification surgeries, the treatment group received 1 drop of brinzolamide-timolol fixed combination immediately after surgery, and the control group received no treatment. The IOP was measured preoperatively and at 2nd and 24th hours postoperatively. If IOP was above 30 mmHg with applanation at 2nd hour, necessary interventions were performed in order to decrease the pressure.

RESULTS: The treatment group included 51 eyes of 45 patients and the control group, 50 eyes of 50 patients. The mean IOP change was lower in the treatment group than in the control group at 2nd hour postoperatively. Twenty-four hours after surgery, the mean IOP change was still higher in the control group when compared to controls. The difference between the mean IOP values of the two study groups at 2nd and 24th hours postoperatively was found to be statistically significant. In the treatment group, there was significantly less patients with a postoperative IOP value ≥30mmHg applanation than in the control group.

CONCLUSION: The fixed combination brinzolamide-timolol effectively reduced IOP at 2nd and 24th hours after phacoemulsification cataract surgery.