

## Forty Eight Hours Intraocular Pressure Curve after one Single Dose Administration of the Ophthalmic Solution AGN 192024 in Patients with Primary Open Angle Glaucoma

P. Bournas, D. Kanellas, P. Dimopoulos, E. Vaikoussis and H. Carageorgiou

General Hospital of Nikea-Pireas and Department of Pharmacology, Athens University School of Medicine, Athens, Greece

### AIM

The purpose of this study was to examine the effect of the new ocular hypotensive agent AGN 192024 (bimatoprost) on intraocular pressure (IOP) of patients with open angle glaucoma over 48 hours, after a single dose administration.

### MATERIALS AND METHODS

Twenty-three patients (43eyes) with open angle glaucoma, after an appropriate washout period, received initially a single drop of placebo in each eye and the curve of their intraocular pressure (IOP) was registered. All these patients, after 48 hours exactly, received a single dose of ophthalmic solution AGN 192024 in each eye and their IOP curve was also listed and then compared with the first one.

### RESULTS

The reduction of IOP started 4 hours after the administration and the best results were observe 8-14 hours after the installation (after 12 hours, the reduction of IOP was 6.6mmHg-25.6%). The reduction of IOP remained in satisfying levels for over 24hours. Stinging and foreign-body sensation in a few patients for some minutes after the administration and a slight conjunctival hyperemia disappeared by the next day without treatment. Systemic effects were not reported. Significant changes in papillary diameter and flare or cells in the anterior chamber were not found.

### CONCLUSIONS

These results suggest that AGN 192024 (bimatoprost) is a potentially useful hypotensive agent, appropriate to be used even once daily.