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Service (sector) Glaucoma Nº CEP

EFFECTS ON INTRAOCULAR PRESSURE IN PRIMARY OPEN-ANGLE GLAUCOMA AFTER COMBINED THERAPY WITH LATANOPROST AND BIMATOPROST: A RANDOMIZED CLINICAL TRIAL

Larissa Morimoto Doi, Luiz Alberto S Melo Jr, João Antônio Prata Jr Purpose: To evaluate the effect of the association of bimatoprost to latanoprost on intraocular pressure in primary open-angle glaucoma.

Design: Randomized clinical trial

Methods: Study population: Thirteen patients (26 eyes) with primary open-angle glaucoma. Intervention procedures: The study was composed of three successive phases in a total of 11 weeks. In the first phase (4 weeks), latanoprost 0.005% was prescribed for both eyes of the participants and any other ocular hypotensive drug was discontinued. In the second phase (4 weeks), bimatoprost 0.03% was associated to latanoprost in one eye (case group), randomly assigned, of each patient. In the third phase (3 weeks), bimatoprost was discontinued from the case eye of each individual, and in the other eye (control group), latanoprost was substituted for bimatoprost. Main outcome measures: Changes in intraocular pressure in both groups throughout the study.

Results: At the end of the second phase, there was a mean elevation in intraocular pressure of 2.08 ± 3.90 mmHg (p=0.016) on the case group (bimatoprost+latanoprost) which returned to previous values after discontinuation of bimatoprost. There was no statistically significant alteration in intraocular pressure of the control group throughout the study.

Conclusion: The adjunctive use of bimatoprost and latanoprost in patients with primary open-angle glaucoma caused an increase in the intraocular pressure.