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Six months study on signs and symptoms of polyquad preserved travoprost/timolol fixed combination on previously treated glaucoma patients.

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Abstract

Purpose: To assess usefulness and tolerability of switching glaucoma patients to the fixed combination Travoprost 0.004%/Timolol 0.5% with polyquad (PQ-TTFC); to record effects on tear film break-up time (TF-BUT) and on quality of life (OSDI).

Methods: Multicenter, observational cohort, 6 month study. 50 patients on concomitant Timolol 0.5% (twice a day) and Dorzolamide (twice a day) or Timolol and Latanoprost (once a day) (BAK-preserved) were switched to PQ-TTFC (evening dosage). IOP, TFBUT and AEs were recorded and all patients completed the OSDI questionnaire at baseline and after 6 months. All analysis refers to right eye; left eye's data are similar.

Results: Median age was 70 [63-73] years, women were 54.9% of the sample. IOP significantly decreased (from 18 [16-21] to 15 [12-17] mmHg) after substitution ($p < 0.001$). At baseline 31.4% of patients presented an IOP < 18 mmHg, the percentage increased to 80% of subjects at 6 months ($p < 0.001$). TF-BUT improved of 2.7 ± 1.9 sec (from 7 [5-8] to 10 [9-11] sec, $p < 0.001$). Only one patient discontinued the new therapy due to periocular skin pigmentation. Quality of life improved from 28 (moderate) to 19 (mild) ($p < 0.001$).

Conclusions: PQ-TTFC appeared useful in this selected population: patients who underwent a regimen modification to PQ-TTFC obtained further reduction in IOP; improvement in ocular surface status with no exposition to BAK toxicity; and reported a better quality of life perception. The low discontinuation's rate at 6 months indicates a good tolerability profile.

Keywords: 568 intraocular pressure • 503 drug toxicity/drug effects • 669 quality of life

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