

RESULTS OF THE COMBINED USE OF SYNTHETIC PROSTAGLANDINS AND NSAIDS TO REDUCE INTRAOCULAR PRESSURE

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Introduction. Currently, synthetic analogs of PG F₂-alpha are the drugs of choice for lowering intraocular pressure (IOP) in patients with glaucoma.

They have proven to be highly effective and highly compliant drugs. At the same time, these drugs contain an admixture of pro-inflammatory PGE, which can reduce the effectiveness of treatment.

In the literature, there are different views on the joint appointment of NSAIDs and synthetic PGs in patients with glaucoma.

Purpose. To compare the effect of latanoprost monotherapy and a combination of latanoprost and NSAIDs on IOP and the state of the corneal surface in patients with glaucoma.

Methods. The study included 47 patients with primary open-angle glaucoma (POAG) aged 51-71 years. The first group of patients received monotherapy (latanoprost once a day). The second group received a combination of latanoprost and the NSAID bromfenac.

Bromfenac is the only NSAID for ophthalmology, which, according to the instructions, is used once a day. All patients were followed up for 10 weeks. IOP was measured with a Goldman tonometer from 8 am to 10 am .

Fluorescein staining of the cornea was assessed on a 4-point scale B.D. Sullivan. The integral indicator of eye irritation was assessed according to the Ocular Surface Disease Index (OSDI).

Results. Analysis of the research results showed the following. In terms of their effectiveness, safety and compliance, synthetic prostaglandins are the first choice in the treatment of POAG.

The combination of the synthetic PG latanoprost with the NSAID brofenac allows to improve the tolerance of the drug on the OSDI scale by 37%, to reduce the signs of irritation of the eye surface (to reduce the conjunctival hyperemia by 36,4%, to reduce the staining of the cornea with fluorescein by 30,3%, to increase the destruction time tear film by 26,6%).

Conclusions. The combination of synthetic PG latanoprost with NSAIDs is rational. It significantly increases the hypotensive efficacy of the drug and reduces signs of eye irritation.