

## **Prognosis of Functional Damage Progression in Patients with Advanced Glaucoma Depending on Different Strategies of Treatment**

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The aim of the study was to evaluate the influence of different types of treatment in patients with advanced glaucoma on the stability of functional changes due to neuropathy. Patients included into the study were divided into two groups: 1. group - 55 patients medically treated with 3 or more antiglaucomatous drops. 2. group - 64 patients after filtering surgery (as a single procedure in 24 patients (37,5%) and combined with phacoemulsification in 40 patients (62,5%)). The following parameters were evaluated on the beginning and the end of the study: visual acuity, IOP, MD and PSD parameters of visual field (HFA) and the number of drops applied. The follow up period was 12 months. Results: Visual acuity was decreased in 21% of patients in 1. group and 17% in 2. group. The decrease of VA was partially caused by cataract progression. MD and PSD parameters were stable in the 2. group and slight but statistically significant progression was observed in the 1. group. The average number of drops used by patients in the 1. group was 3,6 (from 2 to 4) and in the 2. group 1,7 (from 0 to 2). Conclusions: 1. Filtering surgery is effective and safe method of lowering IOP in patients in advanced glaucoma. 2. VF parameters are stable after surgical treatment in patients with advanced glaucoma at one year. 3. Statistically less antiglaucomatous medications were used in the group of patients who underwent filtering surgery.