A possibility of using allontransplants of the "Alloplani" series for pulmonary cavernoplasty has been developed and substantiated experimentally. Histological studies of an experimental pulmonary cavern under conditions of allotransplantation revealed the dynamics of the morphological transformation typical of human pulmonary cavern healing. A reparative process results in the liquidation of the specific changes the cavern wall followed by the formation of a regenerate in the form of a stellate cicatrix.

The results of the optic nerve atrophy surgical treatment in glaucoma with the use of the Alloplant biomaterials

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**Purpose.** Activization of the functional state of the optic disk fibers by the improvement of the peripapillary choroid blood supply.

**Methods.** Optic nerve revascularization surgery was performed with the use of the Alloplant biomaterials. 178 patients were operated on diagnosed as the optic nerve atrophy in compensated glaucoma.

**Results.** Long-term results were valued in 95 patients. The age ranged from 31 to 86, with 65 males and 30 females. The analysis of the state of the visual function in the long-term follow-up (6 to 72 months) showed that there was an improvement in 64-75% of the operated on patients, with no changes in 23.0-32.2% and became worse in 3.5-7.7%.

**Conclusions.** The obtained data with the above mentioned surgeries allow to make the following conclusions:
- stabilization and improvement of a number of visual functions in the long-term follow-up are observed in most of the operated-on patients;
- there is a direct relationship between the effect of the given surgery and seriousness of the visual system affection;
- there is observed a direct dependence of the outcome of the surgery upon the time it was performed. The earlier it is performed the better is the prognosis for the favorable results.