

Supplemental Materials

Inclusion Criteria

Inclusion criteria for the glaucoma group were as follows: age between 25 and 80 years; BCVA of 0.6 (standard logarithmic visual acuity chart standard) or better; a spherical equivalent $\pm 6D$; the presence of POAG accompanying with increasing intraocular pressure defined as follows:

- open anterior chamber angle;
- elevated IOP (>21 mmHg) measured on at least two occasions;
- a glaucoma hemifield test result showed “outside of normal limits”;
- a corresponding glaucomatous optic disc change or a nerve fiber layer defect in one or both eyes;
- elimination of the effect of secondary factors.

The presence of NTG is defined as follows:

- open anterior chamber angle;
- $IOP \leq 21$ mmHg measured on 24-hour IOP curve;
- a glaucoma hemifield test result showed “outside of normal limits”;
- a corresponding glaucomatous optic disc change or a nerve fiber layer defect in one or both eyes;
- elimination of the effect of secondary factors.

The presence of PACG is defined as follows:

- closed or partially closed anterior chamber angle;
- a glaucoma hemifield test result showed “outside of normal limits”;
- a corresponding glaucomatous optic disc change or a nerve fiber layer defect in one or both eyes;
- elimination of the effect of secondary factors.

Exclusion criteria

Exclusion criteria were as follows:

no reliable VF; laser therapy or intraocular surgery within six months; other eye disease; angiocardopathy; metabolic disease; neurological or psychiatric disease;

drug dependence; tremor or dystonia that prevented performance of MRI; claustrophobia; implantation of a metallic device, including a pacemaker, aneurysm clip, or a cochlear implant; presence of a lesion in the brain parenchyma that was evident at the commencement of the study.

The control group consisted of healthy subjects of matched age, gender, and with an IOP ≤ 21 mmHg; normal VFs; cup/disc ratios < 0.6 ; differences in between-eye cup/disc ratios of < 0.2 ; BCVA of 0.6 or better; and spherical equivalents within ± 6 D. The exclusion criteria were identical to those applied to the glaucoma group.