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YAG laser iridotomy treatment for angle closure glaucoma

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Introduction: Laser iridotomy is a simple, quick and safe procedure of treatment and prevention of acute clouser glaucoma.

Aim of study: This study presents the results and analysis of Nd:YAG laser treatment in PACG in six months follow up period.

Applied Method: In the period 2008-2009 fifty laser iridotomy in patients with PACG was performed. Patients were divided in two groups. First acute angle closure (AAC), second subacute and angle closure suspect. Visual acuity, IOP, CCT and gonioscopy were undertaken. One day before the procedure pilocarpine, brominidine drops were applied and in the laser day. Local anesthesia and ocular lens were used. Energy value oscillated from 5.0 to 8.0 J. In ten cases in thick iris iridotomy was performed in two steps, first was made by argon laser, second by Yag laser. IOP was checked after the procedure. Dexamethason drops were used 7 days after laser treatment. Control clinic visit was made week, month three months after operation.

Results: Due to AAC 36% (18 eyes), subacute and suspect AC 64% (32 eyes) iridecotmy was performed. In the first group average decrease of IOP was 14.00 mmHg. The IOP level was stable during follow up period (12.75; 12.25; 12.10; 11.00). In the second group average decrease of IOP was 5.1 mmHg and it was also stable (5.8; 6.0; 5.9; 5.2). In seven patients iridotomy widen was made. Beside bleeding to the anterior chamber in nine cases no other side effect was found. During follow-up term there were no acute clouser of filtration angle.

Conclusions: Laser iridotomy is a simple, quick and safe method of treatment and prevention of acute clouser glaucoma in the narrow filtration angle eyes. Procedure delayed necessity of traditional glaucoma surgery. It can be performed safety in regional ophthalmology clinic.