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Efficacy of Ab-Interno Canaloplasty Performed With or Without GATT in Cases of Moderate Versus Severe Glaucoma

E-Poster

Purpose: To compare the outcomes of ab-interno canaloplasty with the iTrack microcatheter (Nova Eye Medical, Fremont, USA) as a standalone procedure or combined with gonioscopy-assisted transluminal trabeculotomy (GATT), in moderate versus severe primary open-angle glaucoma (POAG) eyes.

Setting: A single-center retrospective case series.

Methods: Patients with uncontrolled (≥ 18 mmHg) POAG and no history of glaucoma surgery, except for SLT or CPC, underwent treatment with either canaloplasty or canaloplasty+GATT. Eyes were categorized into moderate or severe groups and were followed for 24 months.



Results: Twenty-one eyes (8 moderate and 13 severe) were included. Mean baseline IOP (mmHg) and number of medications were 21.1 ± 3.1 and 1.4 ± 0.7 (moderate) and 23 ± 6 and 2.5 ± 0.6 (severe). At 24 months mean IOP and mean number of medications reduced in both groups to 12.8 ± 1.2 and 11.8 ± 2.7 respectively, and to 0.6 ± 0.5 and 2 ± 0.8 ($p=0.01$ among groups).

Conclusion: Canaloplasty resulted in a sustained reduction in IOP and anti-glaucoma medications when performed as a standalone procedure or in combination with GATT in patients with uncontrolled moderate POAG. In eyes with severe POAG, canaloplasty was able to reduce IOP.

Financial disclosure: None Declared