



Medication Burden in 3+ Meds Glaucoma Eyes Following Canaloplasty Via an Ab-Interno Technique Combined with Phacoemulsification

Paper

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Purpose: To evaluate the effectiveness of 360-degree canaloplasty using iTrack microcatheter (Nova Eye Medical., Fremont, USA) in glaucoma patients on 3+ medications.

Method: A prospective multicenter case series of eyes undergoing canaloplasty either combined with cataract surgery or performed as a standalone procedure. Patients with glaucoma and on 3+ medications were included. Primary endpoints included intraocular pressure (IOP) and number of medications at 12 months.

Results: IOP (mmHg) and number of medications at baseline (n=139) were 17.55 ± 5.70 and 3.44 ± 0.58 , which reduced to 13.92 ± 4.76 (-20.7%; $p < 0.001$) and 2.00 ± 1.45 (-41.8%; $p < 0.001$) at 12 months (n=42), respectively. Eleven eyes (26.2%) were medication-free at 12 months. There was a reduction in the number of medications in 25 eyes (59.5%; mean reduction: 1.45 meds); the other 17 eyes (40.5%) had no change in medications; no eye had an increase in medications. Twenty eyes (47.6%) still required the use of 3 or more medications.

Conclusions: Canaloplasty when combined with cataract surgery or performed as a standalone procedure reduced medication burden in eyes requiring 3 or more medications at baseline up to 12 months postoperatively.

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