



Long-Term Outcomes: Gonioscopy-Assisted Transluminal Trabeculotomy for Secondary Open-Angle Glaucoma Associated with Intravitreal Injections

Poster

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Purpose: To assess the safety and efficacy of Gonioscopy-Assisted Transluminal Trabeculotomy (GATT) using the iTrack microcatheter (Nova Eye Medical, Fremont, USA) in secondary open-angle glaucoma induced by intravitreal injections.

Method: This single-center, retrospective, observational study evaluated eyes that underwent GATT between 2017 and 2021 to treat sustained ocular hypertension from intravitreal injections. Outcome included intraocular pressure (IOP), number of ocular hypertensive medications, and safety.

Results: study included 34 eyes (mean age: 64.9 ± 13.6): 18 with glaucoma resulting from intravitreal steroid injections and 16 from Avastin injections. IOP and medications decreased from 28.15 ± 5.9 and 2.8 ± 0.9 at baseline to 15.7 ± 6.2 ($p < 0.001$) and 1.7 ± 1.4 ($p = 0.01$) at 6 months ($n = 19$), 13.07 ± 3.2 ($p < 0.001$) and 1.9 ± 1.5 ($p = 0.05$) at 12 months ($n = 15$), and 12.9 ± 2.8 ($p < 0.001$) and 1.9 ± 1.5 ($p = 0.04$) at 24 months ($n = 16$). No significant complications were reported.

Conclusions: GATT using the iTrack microcatheter is safe and effective to reduce IOP and medications in secondary OAG related to intravitreal injections over a 24-month period.

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