



## Ab-Interno Canaloplasty Standalone Versus Combined with Cataract Surgery – 36-Month Outcomes in +1000 Eyes

*Paper*

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**Purpose:** To investigate the clinical outcomes of ab-interno canaloplasty (ABiC) with the iTrack microcatheter (Nova Eye Medical) performed as a standalone procedure (ABiC) and in combination with phacoemulsification (ABiC+phaco) over a 36-month period.



**Method:** Non-randomized, single center, retrospective case series of eyes undergoing either ABiC or ABiC+phaco. Adult patients with controlled and uncontrolled open-angle glaucoma and no prior glaucoma surgery were eligible for inclusion. Outcome measures include intraocular pressure (IOP) and number of glaucoma medications.

**Results:** 1013 eyes (335 ABiC and 678 ABiC+phaco) were included. Mean baseline IOP was  $21.7 \pm 7.1$  mmHg (ABiC) and  $18.5 \pm 7.3$  mmHg (ABiC+phaco) while the number of glaucoma medications was  $2.11 \pm 1.17$  (ABiC) and  $1.72 \pm 1.13$  (ABiC+phaco). There was a statistically significant difference among the groups at baseline ( $p < 0.001$ ). At 36 months, mean IOP was reduced to  $17.0 \pm 4.0$  mmHg ( $n=10$ ) and  $14.4 \pm 3.3$  mmHg ( $n=41$ ), respectively, and the mean number of medications was reduced to  $1.42 \pm 0.90$  ( $n=12$ ) and  $0.88 \pm 1.13$  ( $n=42$ ), respectively, with no significant statistical difference between groups ( $p=0.18$ ;  $p=0.44$ ). Ninety-nine eyes experienced adverse events such as postoperatively IOP spikes; 7 eyes had complications.

**Conclusions:** ABiC results in a sustained reduction in mean IOP and glaucoma medications when used as a standalone procedure or in combination with phacoemulsification.

**Disclosures:** Dr. Khaimi is Chief Medical Consultant – iTrack, at Nova Eye Medical. The other authors have no financial or proprietary interest in any device, drugs, methods, or other subject matter mentioned.

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Saturday, April 26  
Minimally Invasive Glaucoma Surgery  
(MIGS) II 2:15 PM - 2:20 PM  
LACC - Meeting Room Level 2, 512