

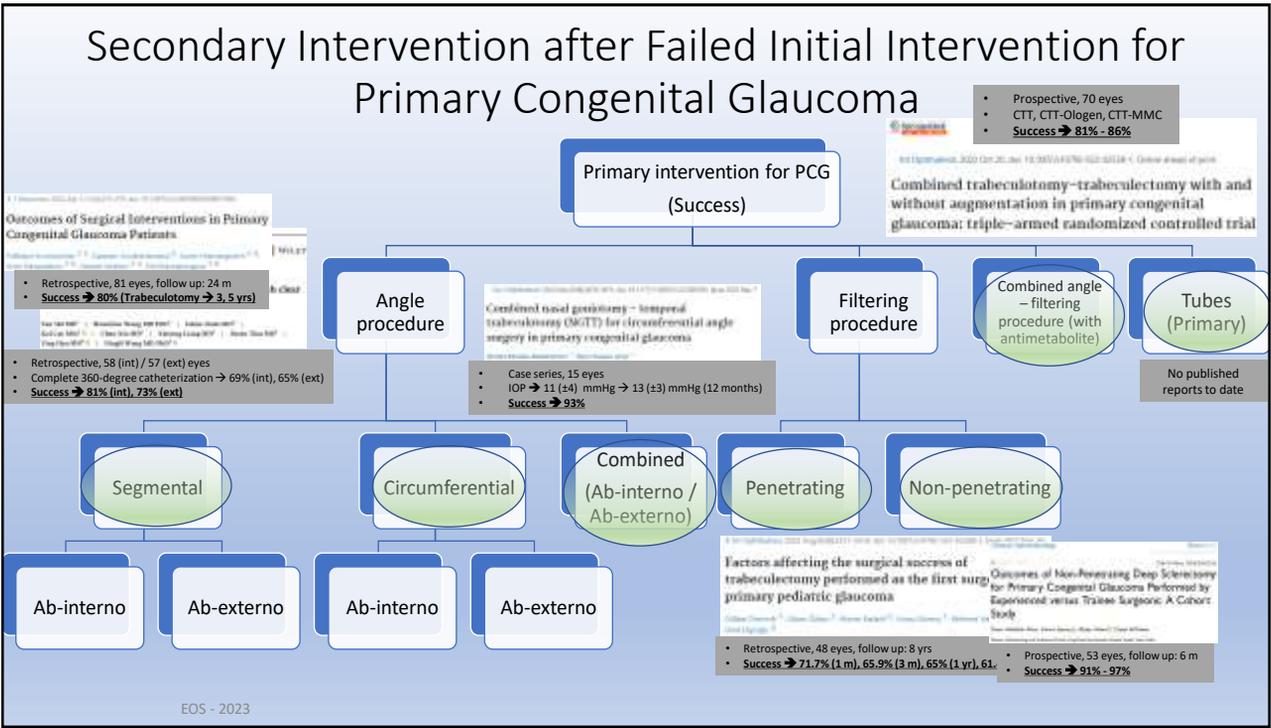


Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

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Disclosures: None

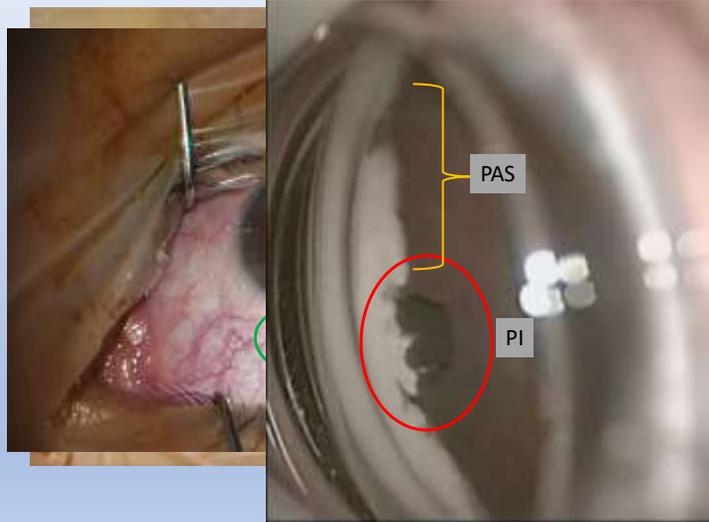
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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

- **Challenges with secondary intervention**
- Ab interno procedures → corneal opacity
- Angle procedures → violation of angle by →
 - Previous angle surgery (segmental / circumferential)
 - Previous filtering surgery → block excision
- Conjunctival based procedure →
 - Extensive conjunctival scarring & adhesions & scar lines
 - Area of significant treatment-naïve conjunctiva
- Lamellar dissection-based procedures →
 - Scleral thinning (progression of disease)

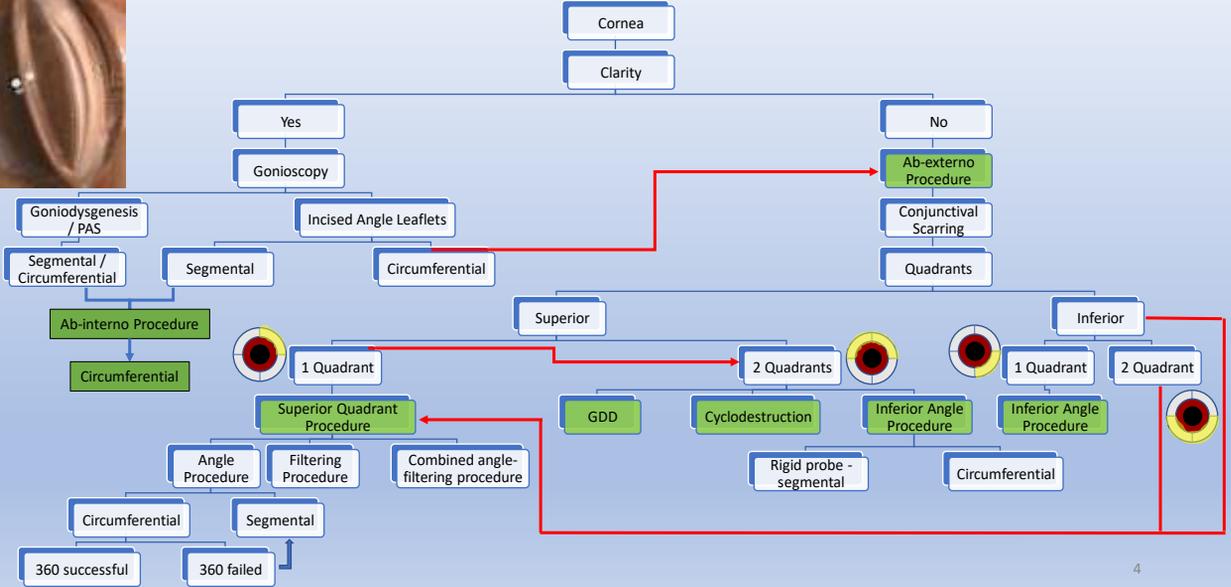


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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma



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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

• To summarise ...

- Ab interno procedures → corneal clear
 - Segmental / Circumferential
- Ab externo procedures → cornea opacity
 - Superior quadrant →
 - Angle procedure
 - Filtering procedure
 - Combined angle – filtering procedure
 - GDD
 - Inferior quadrant →
 - Angle procedure
- Cyclodestruction

Additionally ...

- Surgeon preference & skill
- Available tools

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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

- Cornea
- Clarity
 - Yes
- Gonioscopy
 - Goniodysgenesis / PAS
 - Segmental / Circumferential
 - Incised Angle Leaflets
 - Segmental
 - Circumferential

Original Article

Goniotomy for initial and re-surgery for childhood glaucoma in Northern India

Kumari, Anu Arora,

MEAJO Middle East African Journal of Ophthalmology

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Middle East Afr J Ophthalmol, 2020 Jul-Sep; 2(2): 145-149
Published online 2020 Oct 31. doi: 10.4103/MEAJO.MEAJO_207_20

PMCID: PMC7813342
PMID: 32853370

Surgical Outcomes of Microcatheter-assisted Trabeculotomy as a Secondary Procedure in Patients with Primary Congenital Glaucoma

Arvind K. Chhabra,¹ Hiral Chhabra,² Dhanraj P. Eduravi,^{3,4} and Jayashree N. Jaisankar⁵

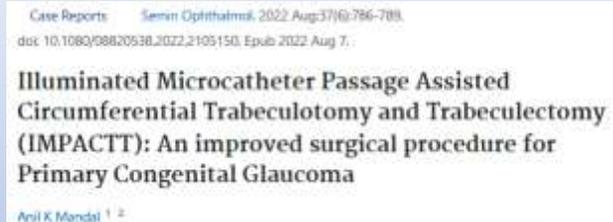
- Retrospective, 16 eyes
- MMC used subconjunctival
- Complete 360-degree catheterization → 70%
- IOP → 32 (±7) mmHg → 16 (±4) mmHg
- No difference between complete & partial catheterization

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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

- Cornea
- Clarity
- No
 - Ab-externo Procedure
 - Conjunctival Scarring
 - Quadrants
 - Inferior
 - Superior Quadrant Procedure
 - Combined angle-filtering procedure

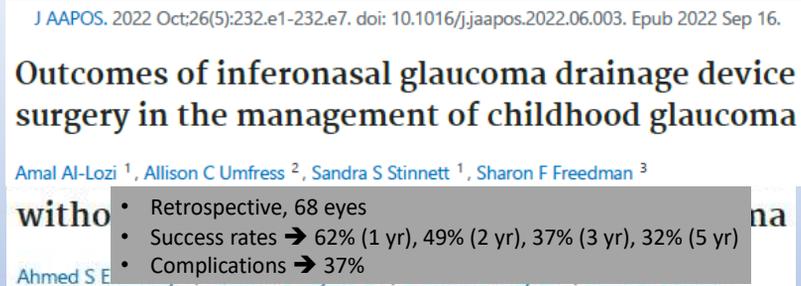


- Case Report
- Male, 4m
- IOP → 36 mmHg → 12 mmHg (2 months)

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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

- Cornea
- Clarity
- No
 - Ab-externo Procedure
 - Conjunctival Scarring
 - Quadrants
 - Superior
 - 1 Quadrant
 - 2 Quadrants
 - GDD



- Retrospective, 68 eyes
- Success rates → 62% (1 yr), 49% (2 yr), 37% (3 yr), 32% (5 yr)
- Complications → 37%

- Prospective, 33 eyes (82% → PCG)
- AGV Vs AGV-Ologen
- Success rates (2 yrs) → 63% (AGV), 77% (AGV-Ologen)

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Secondary Intervention after Failed Initial Intervention for Primary Congenital Glaucoma

- Take Home Message

- Look for →

- Corneal clarity
- Conjunctival scarring

- Consider →

- Angle-based procedures
- Combined angle-filtering procedures
- Glaucoma drainage devices
- Cyclodestruction

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Thank You

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