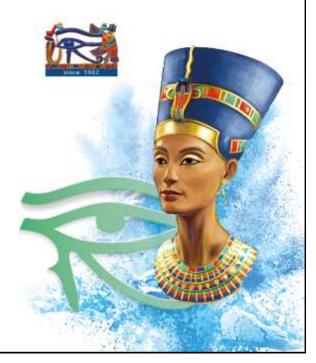


Pediatric trabs Friend or Foe

Ahmed Adel Lecturer Kasr Alaini





Pediatric
Trabeculectomy



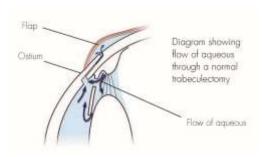


Trabeculectomy

- I am 55 years old
- I am the gold standard for filteration surgery



- Aquaeous outflow pathway
- Normal wound healing cascade
- Closure.
- Modulation is needed





Pediatric Trabeculectomy

- Trabeculectomy provides satisfactory and sustainable success (65%-80%)
- The gold-standard approach for eyes that have undergone unsuccessful angle surgery





Trabeculectomy With Mitomycin C Versus Ahmed Glaucoma Implant With Mitomycin C for Treatment of Pediatric Aphakic Glaucoma

- (J Glaucoma 2007;16:631-636)
- Results: Complete and qualified success rates were 33.3% and 40% in T+MMC group versus 20% and 66.7% in AGI+MMC group, respectively (P=0.36). Mean follow-up was 14.8 and 13.1 months and complication rates were 40% and 26.7% (P=0.44), respectively.
- Conclusions: T+MMC and AGI+MMC are comparable in terms of success rate and complications in pediatric aphakic glaucoma



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PMID: 27875350

Pediatric Glaucoma: Review of recent literature

Annette Giangiacomo, MD and Allen Beck, MD

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Abstract Go to: •

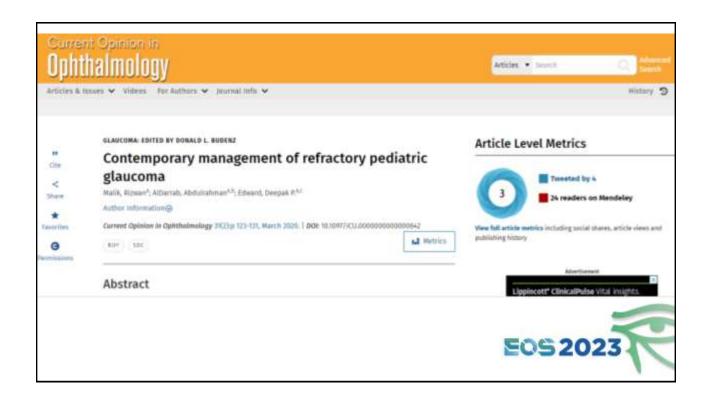
Purpose of review



Conclusion Go to: •

In conclusion, the use of iCare to measure IOP will likely continue to be important in the management of pediatric patients since it is associated with increased success of obtaining a measurement in this population. In addition, new data from IATS shows the risk of developing glaucoma at 5 years after unilateral pediatric cataract surgery is similar whether refractive error is managed with intraocular lens placement at the time of surgery or with leaving the patient aphakic and using a postoperative contact lens. Further, trabeculotomy, trabeculectomy and Ahmed implantation continue to hold central roles in managing surgical glaucoma as their efficacy continues to be supported.

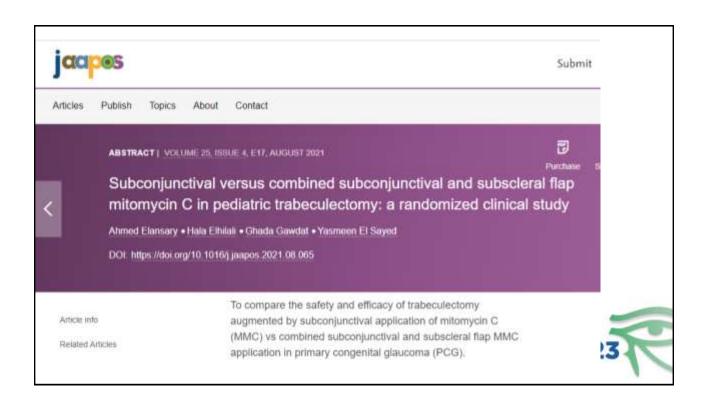


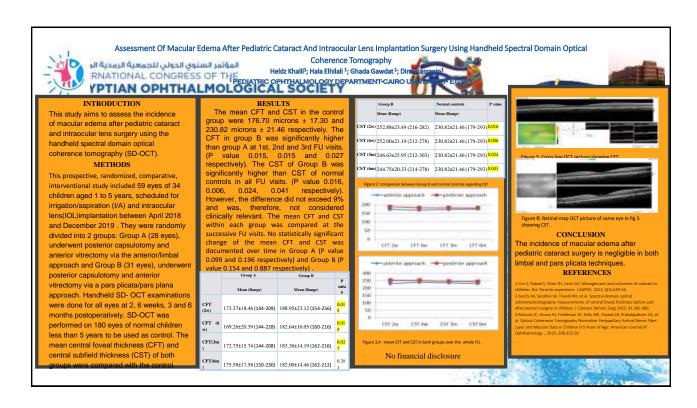


Conclusion

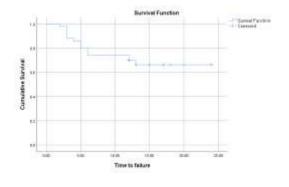
• Trabeculectomy remains the gold-standard approach for eyes with failed angle surgery in phakic eyes, carrying a success rate of 65% to over 80% at 5 years

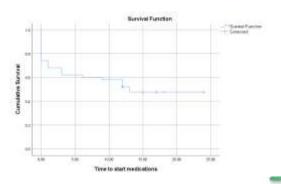












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Complications of trabeculectomy

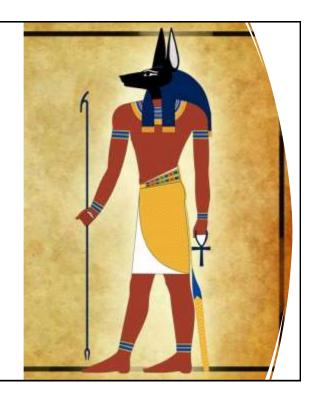
- Peri- Operative Complications
- Conjunctival tear
- Conjunctival, scleral and iris bleeding
- Scleral flap damage
- Suprachoroidal haemorrhage
- Decompression retinopathy
- Vitreous loss

- Postoperative Complications
- Wipe- Out' of Visual Field
- Malignant Glaucoma/Aqueous Misdirection
- Cataract formation
- Blebitis and Endophthalmitis
- · Bleb Leak
- Encapsulated Bleb (Tenon Cyst)
- Hypotony
- · Bleb Dysethesia
- Failing or failed blebs:

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Barriers in pediatric trabeculectomy

- Thick Tenon's capsule.
- Rapid wound healing response.
- · Lower scleral rigidity.
- Large buphthalmic eye with thin sclera.
- Conjunctival scarring from previous ocular surgery.
- lack of cooperation with examination and with the administration of drops in the postoperative period.



Pediatric trabeculectomy

The ninth World Glaucoma Association's consensus has strongly advised against performing trabeculectomy as a primary procedure in pediatric glaucoma.





Pediatric trabeculectomy

How to make it FRIEND ??

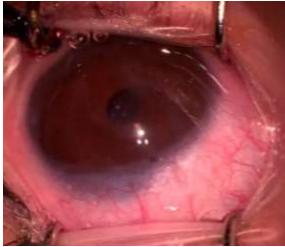


Speculum

large



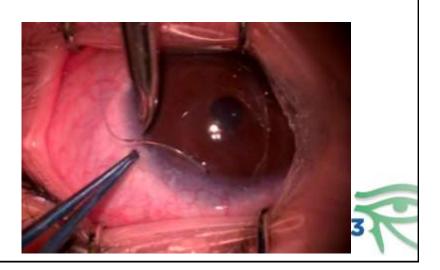
Where to start





Tractional suture

clear cornea,good long bite



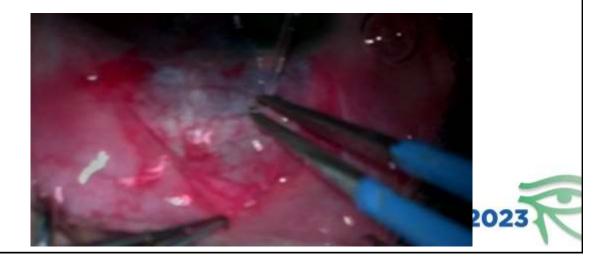
Conjunctival opening

Release

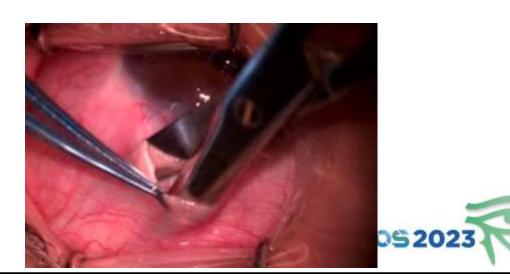




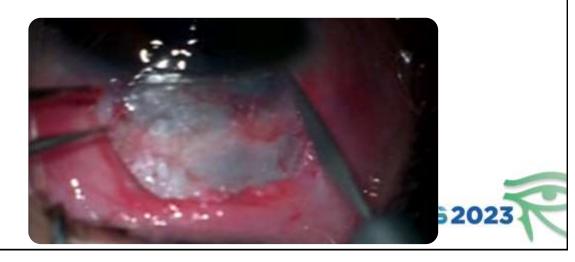
Diathermy



Posterior dissection

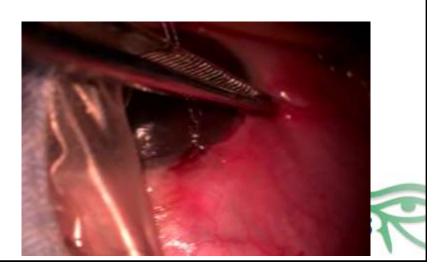


Flap dissection



Mitomycin application

conjنيم ال•

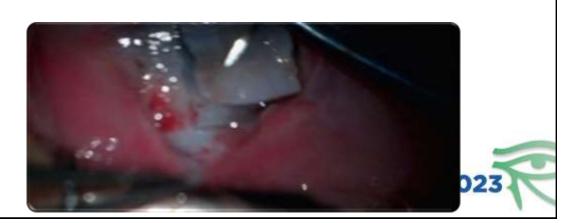


Thorough wash



Preplaced suture

hypotony duration



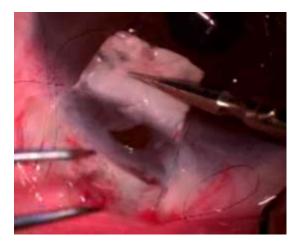
Release traction.



Paracentesis.



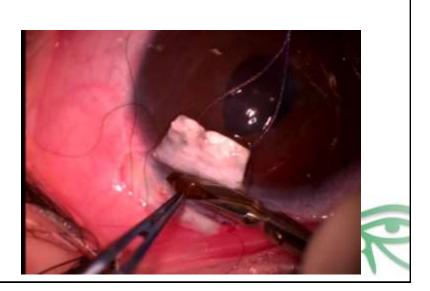
Block excision





PI

• Mc-Pherson

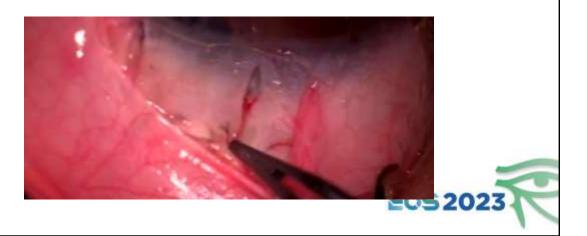


Closure of flap

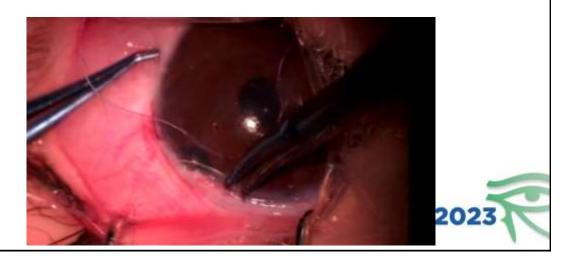
Paracentesis



Embed sutures



Water tight conjunctival closure



Atropine and diprofos



