

المؤتمر السنوي الدولي للجمعية الرمحية المصرية  
INTERNATIONAL CONGRESS OF THE

EGYPTIAN OPHTHALMOLOGICAL SOCIETY

**EOS 2023**

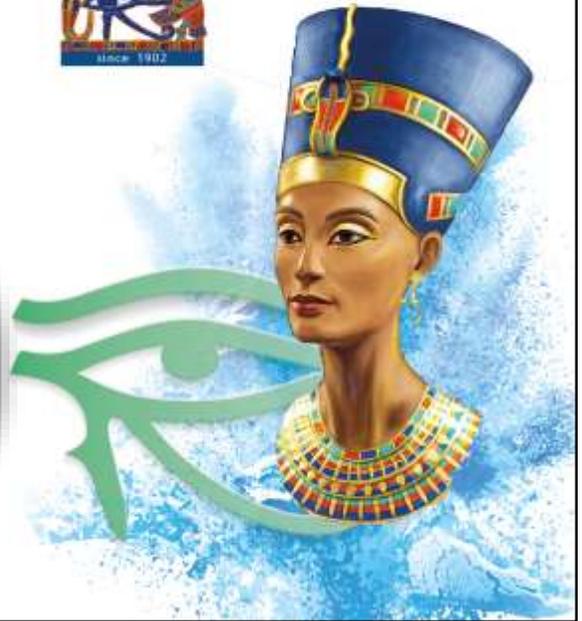


# Blebless Glaucoma Surgery

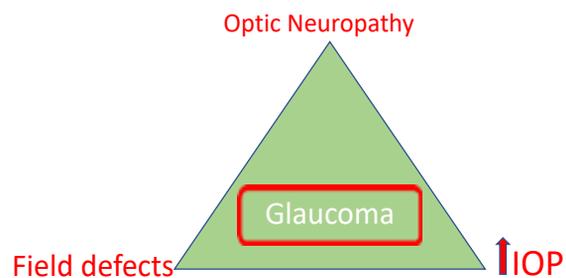
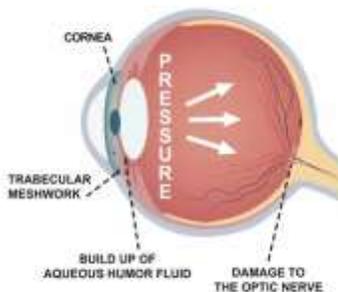
By

**Mohamed Elahmady**

**Assistant lecturer at Kafrelsheikh university**



- Glaucoma is specific optic neuropathy caused by **mainly** ocular hypertension which results in characteristic field defect.



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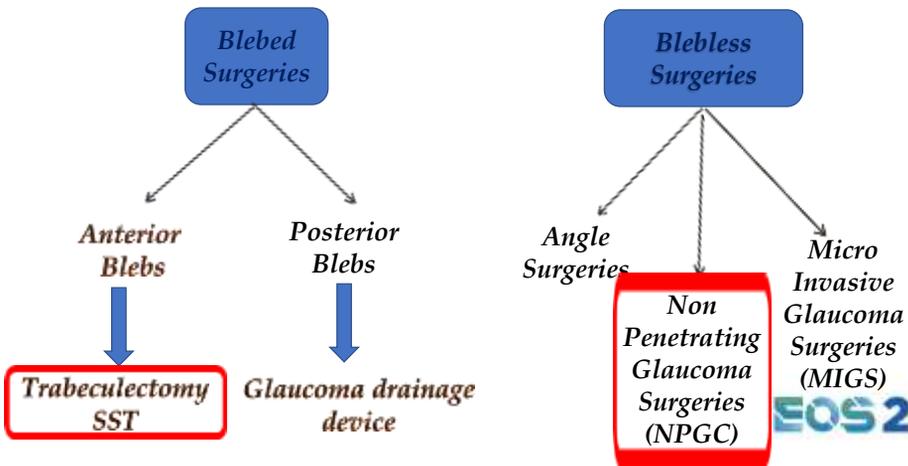




- IOP is a major risk factor in glaucomatous optic neuropathy so decreasing IOP can prevent further visual field loss, halting the progression of this disease.

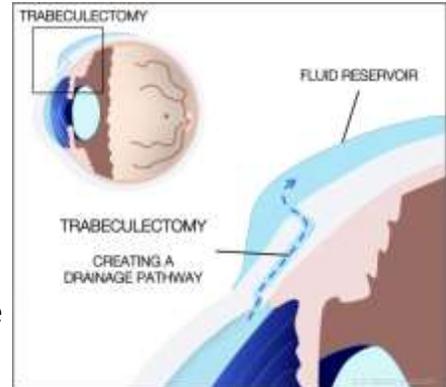


## Glaucoma Surgeries according to Bleb



- Trabeculectomy operation:

- Was first described more than 50 years ago.
- The most commonly performed surgery worldwide for glaucoma patients.

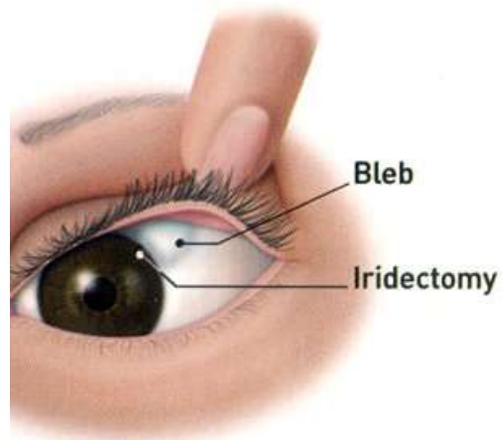


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- Most glaucoma surgeons stick to  
(Blebed Glaucoma Surgeries)

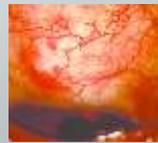
- Greatest IOP reduction.(severe glaucoma)
- Compatible with most types of glaucomas.
- Postoperative course is known.
- Least cost (especially ant bleb surgeries).



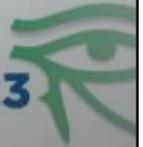
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- Many trabeculectomy related complications have been reported like

- ➔ Hyphema.
- ➔ Shallow anterior chamber.
- ➔ Hypotony.
- ➔ Bleb associated infection.
- ➔ Bleb failure.



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- Risk factors for expected bleb failure
  - Long term topical antiglaucoma therapy.
  - Ocular surfaces inflammation.
  - Previous conjunctival surgery.
  - Uveitis .
  - Black people.
  - Previous filtering bleb failure.

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- Trabeculotomy Operation

➡ Another surgical option.

➡ **Blebless surgery.**

➡ Performed by cannulating the schlemm canal from an external approach with subsequent centripetal rupture through T.M into the A.C .



**Surgical Outcomes of Prolene Gonioscopy-assisted Transluminal Trabeculotomy in Patients With Moderate to Advanced Open-Angle Glaucoma**

*Abdel-Moneim Elshikh, MD, PhD, Nader Bayoumi, MD, FRCOphth, Sherin M. Hagar, MD, PhD, Ayman E. AbdelGhaffar, MD, FRCOphth, and Amr AbdElhakeem, MD\**

**Long-term outcomes of trabeculectomy with ologen versus combined viscotrabeculectomy-synechiolysis in uncontrolled myopic glaucoma**

*Ahmed S. Elwehidy, Nader H. L. Bayoumi, Amgad El Sakr, Sherin M. Hagar*

**Intravitreal Ranibizumab With Panretinal Photocoagulation Followed by Trabeculectomy Versus Visco-Trabeculectomy in Management of Neovascular glaucoma**

*Ahmed S. Elwehidy, MD, PhD, Nader Bayoumi, MD, FRCOphth, Amr AbdElhakeem, MD, FRCOphth, Sherin M. Hagar, MD, PhD, and Ayman E. AbdelGhaffar, MD\**

**Surgical Outcomes of Visco-Circumferential Suture-Trabeculectomy Versus Rigid Probe Trabeculectomy in Primary Congenital Glaucoma: A 3-Year Controlled Study**

*Ahmed S. Elwehidy, MD, PhD, Nader H. L. Bayoumi, MD, FRCOphth, Ayman E. AbdelGhaffar, MD, FRCOphth, Sherin M. Hagar, MD, PhD, and Amr AbdElhakeem, MD\**

**Five-year results of viscotrabeculectomy versus conventional trabeculectomy in primary congenital glaucoma: A randomized controlled study**

*Ahmed S. Elwehidy<sup>1</sup>, Sherin M Hagar<sup>2</sup>, Nader Bayoumi<sup>2</sup>, Ayman E AbdelGhaffar<sup>3</sup> and Amr E Bodawi<sup>1</sup>*

**Ahmed Glaucoma Valve Revision Via Visco-Trabeculectomy After Failed Ahmed Valve in Refractory Pediatric Glaucoma**

*Ahmed S. Elwehidy, MD, PhD, Amr E. Bodawi, MD, Sherin M. Hagar, MD, and Nader H.L. Bayoumi, MD, FRCOphth*

- Trabeculectomy could be alternative choice to trabeculectomy for treatment of adult primary open angle glaucoma .

Mohamed Elahmady



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Ab Externo 360 degree  
trabeculotomy

**Advantages of trabeculotomy.**

- Microincision
- No bleb formation
- Smoother IOP reduction



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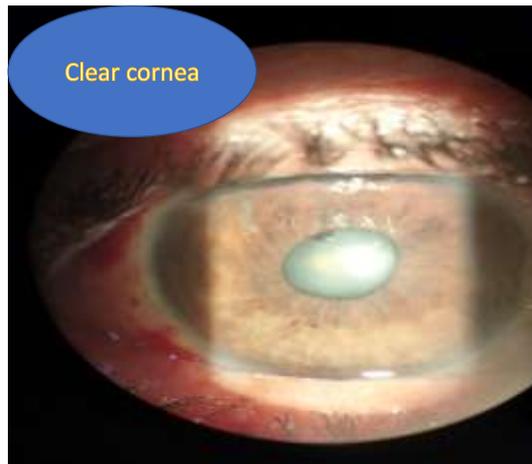


### Disadvantages of Trabeculotomy:

- Hyphema (intra or post operative)
- DM detachment
- Iris prolapse
- Iridodialysis
- cyclodialysis



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5<sup>th</sup> post operative (Intra cameral injection of air)

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## To Bleb or not To Bleb

### Home Message



- ➔ 360 degree trabeculotomy is effective in adult open angle glaucoma as well as congenital glaucoma.
- ➔ It is safe and successful option for treatment of moderate to advanced OAG .
- ➔ Less invasive than traditional trabeculectomy surgeries with low rate of long term complications and bleb related complications are avoided.



Thank You

