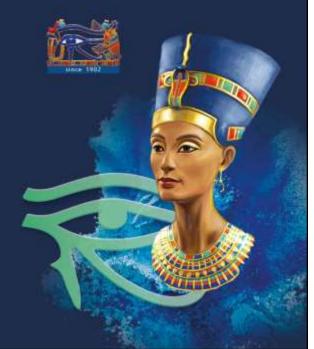


Filtering MIGS

Evolution Of Bleb Surgery

Amr Samir, FRCS

Glaucoma Service
Magrabi Hospitals and Centers
Al Mashreq Eye Center

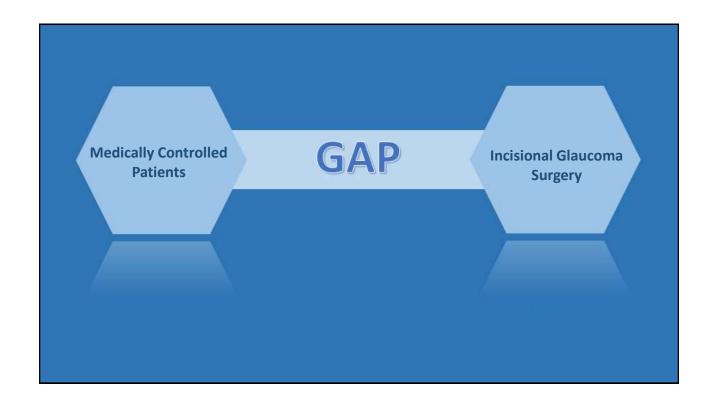


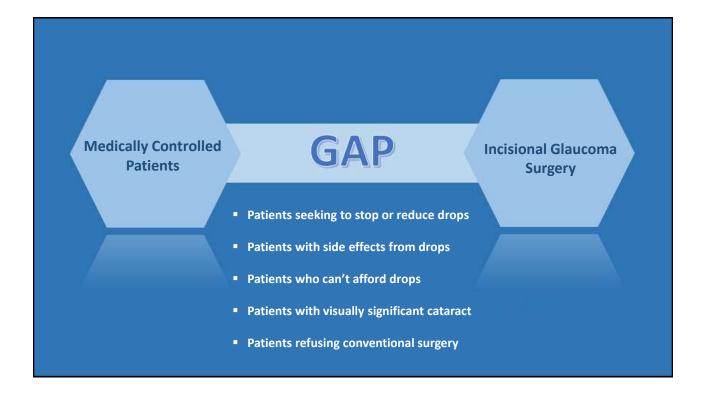
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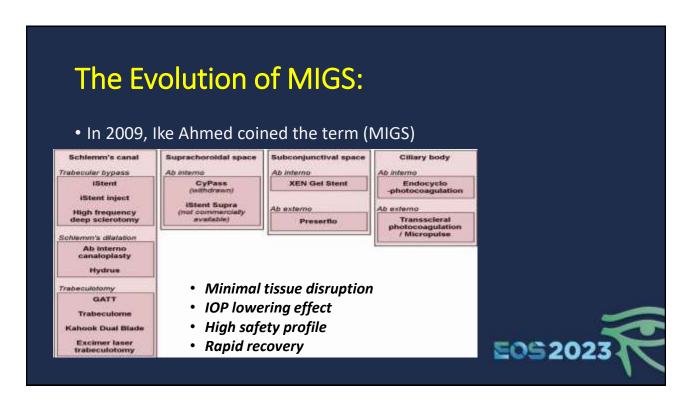
History of Filtering Surgery:

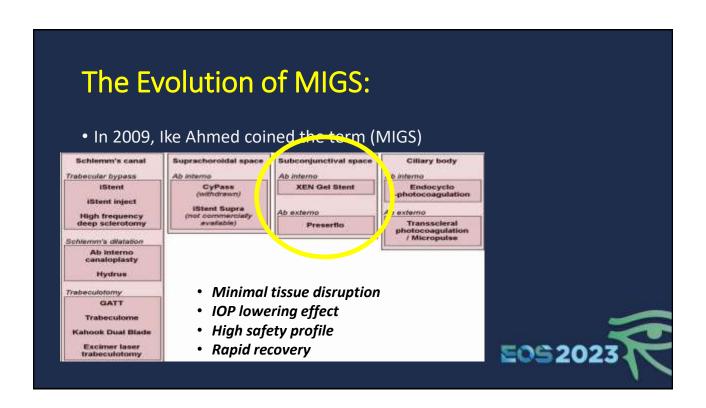
- Filtering Surgery remains the gold standard procedure for patients with an advanced or rapidly progressing disease and for those patients who need very low intraocular pressures.
- Cairns JE initially described trabeculectomy in 1968.
- Modified by Watson in 1970.
- Moorfield's safe surgery system, developed by Peng Khaw and colleagues in 2005.

Complications of Filtering Surgery: • Hypotony • Hypotonic maculopathy • Choroidal detachment • Suprachoroidal hemorrhage • Bleb-related complications • Endophthalmitis











XEN Gel Stent:

 FDA approved in 2016, the Xen gel stent is the first ab interno procedure which bypasses the diseased trabecular meshwork to drain aqueous fluid from the anterior chamber to a subconjunctival bleb





XEN Gel Stent:

- 6-mm hydrophilic flexible tube.
- 45-micron lumen.
- Made of porcine collagen-derived gelatin cross-linked with glutaraldehyde.
- Hydrates within 1-2 minutes of contact with aqueous.





XEN Gel Stent:

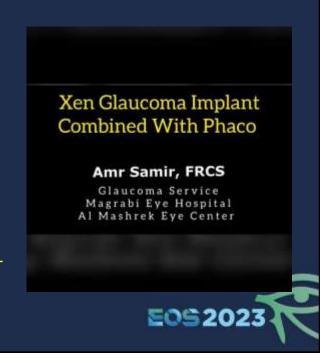
- Ab interno procedure
- Minimal tissue disruption
- High safety profile
- Rapid recovery
- Bleb forming (more IOP lowering amenable to revision)





XEN Gel Stent:

- Ab interno procedure
- Minimal tissue disruption
- High safety profile
- Rapid recovery
- Bleb forming (more IOP lowering amenable to revision)



XEN Gel Stent:

The efficacy of XEN gel stent implantation in glaucoma: a systematic review and meta-analysis

Xiang Yang, 1 Yang Zhao, 1 Yu Zhong, 1,2 and Xuanchu Duan N1,2

Two-year outcomes of minimally invasive XEN Gel Stent implantation in primary open-angle and pseudoexfoliation glaucoma

Teresa Hauchegger 🕾 Reinhard Angermann, Peter Willett, Eduard Schmid, Barbara Teachner

XEN® Gel Stent: A Comprehensive Review on Its Use as a Treatment Option for Refractory Glaucoma

Antonio M.Fen.* George, M.Dun.* Deola Marolo. * Lorenza Malimento.* Mario A.Economou.* and the Ahmed*

The Outcomes of XEN Gel Stent Implantation: A Systematic Review and Meta-Analysis

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Figure W.					

Conclusion:

Xen Gel Stent is a safe and effective procedure to lower IOP in primary and secondary OAG. It offers a more significant reduction in IOP than other *abinterno* MIGS procedure, with a higher safety profile compared to Incisional glaucoma surgery.



PreserFlo® MicroShunt



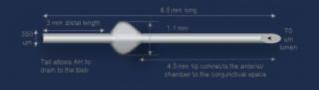
PreserFlo® MicroShunt:

- Received CE mark in 2012.
- The Preserflo is an AB externo procedure, it drains aqueous from the AC to a fornix-based bleb, bypassing the trabecular meshwork.



PreserFlo® MicroShunt:

The device has a total length of 8.5 mm, which is divided by a 1mm "fin" into distal (3 mm) and proximal (4.5 mm) segments. The external lumen is 350um and the internal lumen is 70um with a beveled tip at the proximal end.





PreserFlo® MicroShunt:

- Ab externo procedure
- Minimal tissue disruption
- High safety profile
- Rapid recovery
- Bleb forming (more IOP lowering amenable to revision)



PreserFlo® MicroShunt:

- Ab externo procedure
- Minimal tissue disruption
- High safety profile
- Rapid recovery
- Bleb forming (more IOP lowering amenable to revision)



Amr Samir Glaucoma Service



PreserFlo® MicroShunt:

Long-term Results of the PRESERFLO MicroShunt in Patients With Primary Open-angle Glaucoma From a Single-center Nonrandomized Study

Batlle, Juan F. MD; Corona, Adalgisa MD; Albuquerque, Rachel MD

Conclusions:

In this extension study, sustained reductions in mean IOP and medications were observed up to 5 years post-MicroShunt implantation. There were no reports of long-term sight-threatening AEs and a low rate of postoperative interventions.

One-year surgical outcomes of the PreserFlo MicroShunt in glaucoma: a multicentre analysis

Conclusion The PreserFio MicroShunt with MMC 0.4 mg/mL showed an overall success rate of 68.3% at 1 year, and led to significant IOP and medication reduction with a low rate of adverse effects.



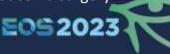
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Minimally Invasive Bleb Surgery (MIBS)
Combine both safety of MIGS
and efficacy of Incisional Surgery

Summary:

- None of our surgeries last forever.
- Think ahead of the disease and plan for the next step.
- No need to master all MIGS, just master one or two and add them to the arsenal.
- Evolution of glaucoma surgery gives more options for patients, and narrows the Gap between medical ttt and conventional glaucoma surgery.



Thank You

