



Paul Versus Ahmed Valve In Refractory Paediatric Glaucoma

Prof. Dr. Abdelhamid Elhofi

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No financial disclosure



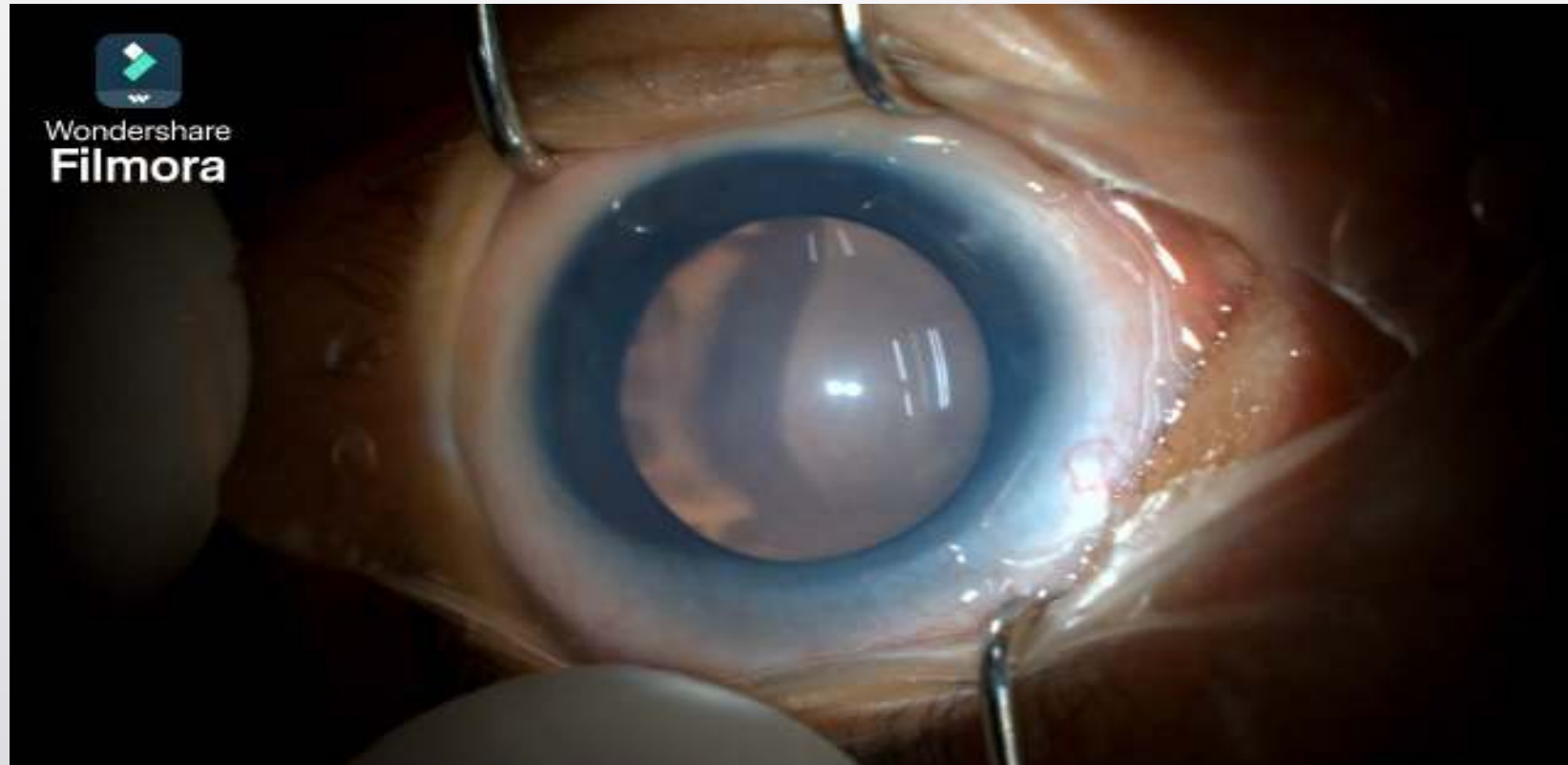
GDDs

- GDDs might be the first resort and might be the last resort, anyway it is an important tool in our management plan for glaucoma surgery.

REFRACTORY PAEDIATRIC GLAUCOMA

- Lens induced glaucoma ,pseudophakic glaucoma , postvitrectomy glaucoma....etc.
- Similar to adult glaucoma GONIOSCOPY is mandatory:
- Open angle gives opportunity for angle surgery either internal or external.
- Narrow angle needs valve from the beginning.
- Diode laser CPC is of less benefit than adults.

LENS INDUCED GLAUCOMA





PAUL IMPLANT:

- Valveless silicon GDD.
- Internal ostium 0.12 mm.
- External ostium 0.46 mm.
- Ripchord 6/0 or 7/0
- Endplate 21.9 x 16.11 mms.
- Area more than Ahmed and less than Baerveldt.



What are the main complications of GDD

- Hypotony
- Endothelial Cell loss
- Extrusion
- Late failure



How to minimize late failure of AGD:

1. Valve implantation in a normotensive window
2. Tenonectomy
3. Mitomycin
4. 5FU
5. Excision of fibrous tissue capsule



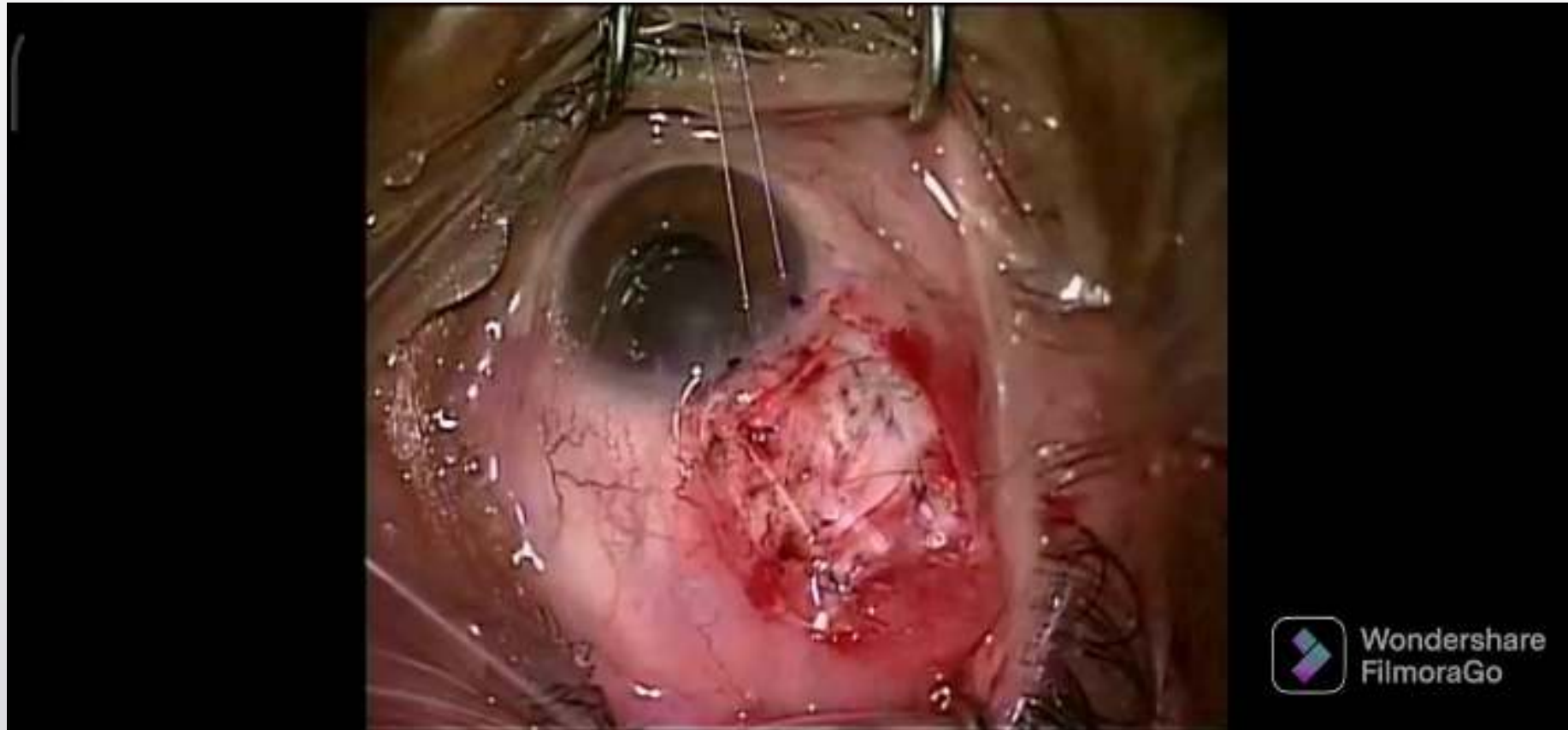
How To Create A Normotensive Window with AGD

- In order to delay aqueous tenon confrontation as aqueous is incriminated for fibrosis when present outside the AC even without inflammation.
- Before Ahmed valve implantation by:CAIs and diode laser CPC
(low burn strategy).
- ECP together with AGD.

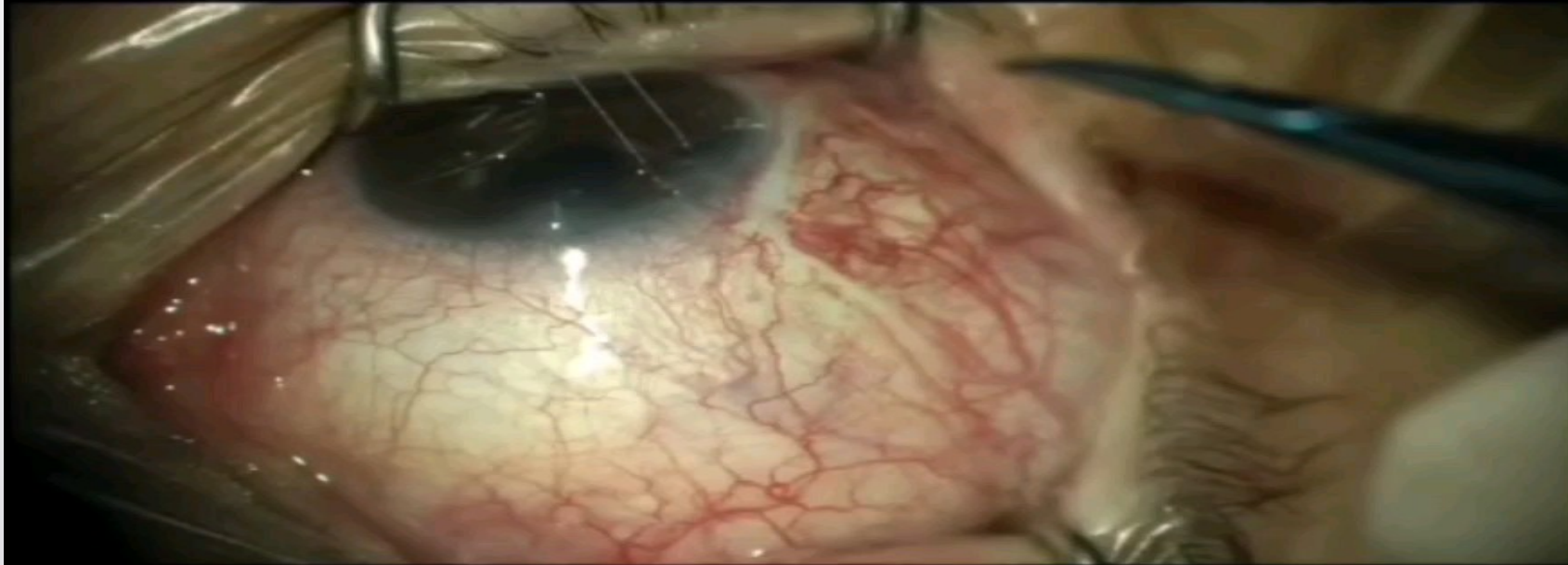
ENDOCYCLOPHOTOCAGULATION with AGD



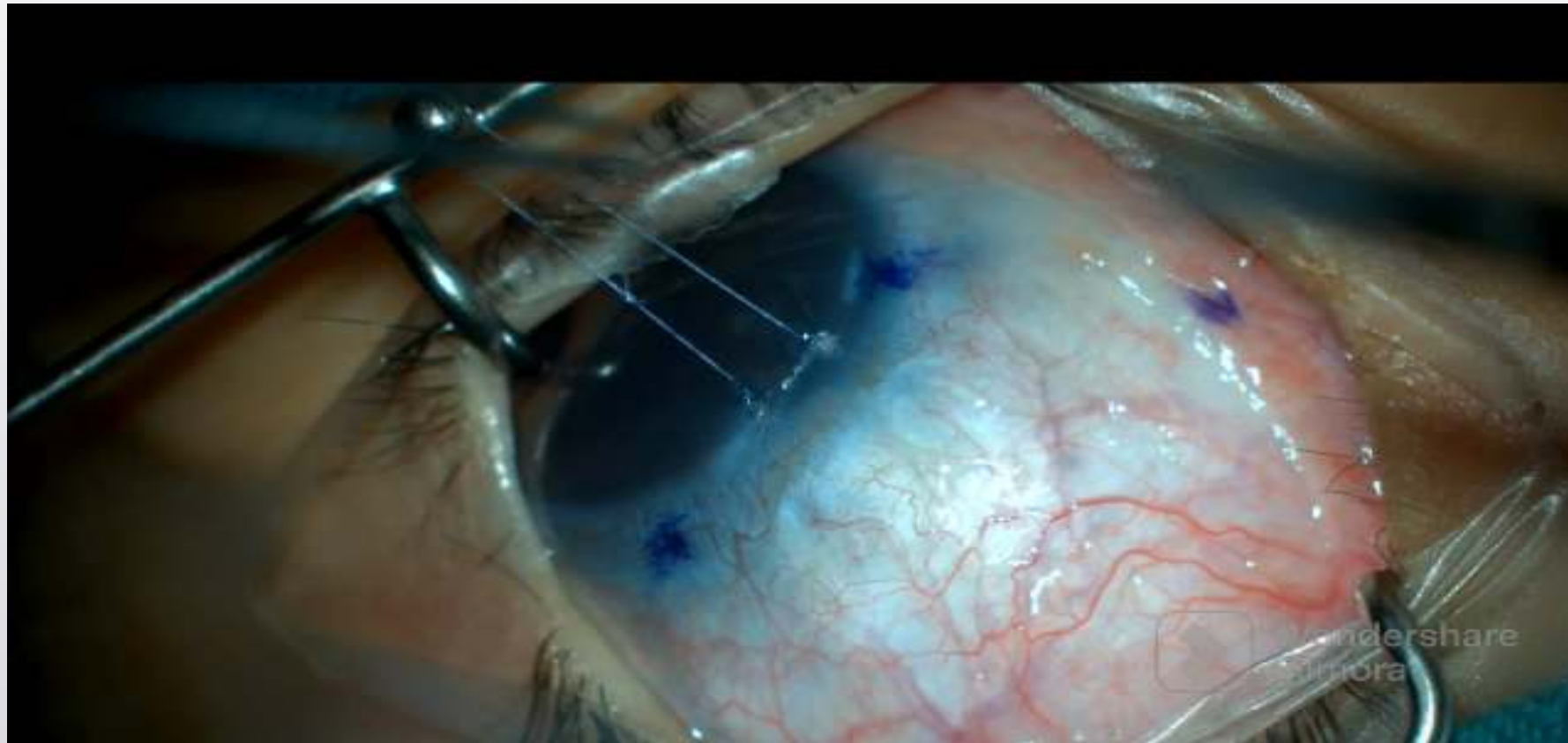
Tenonectomy

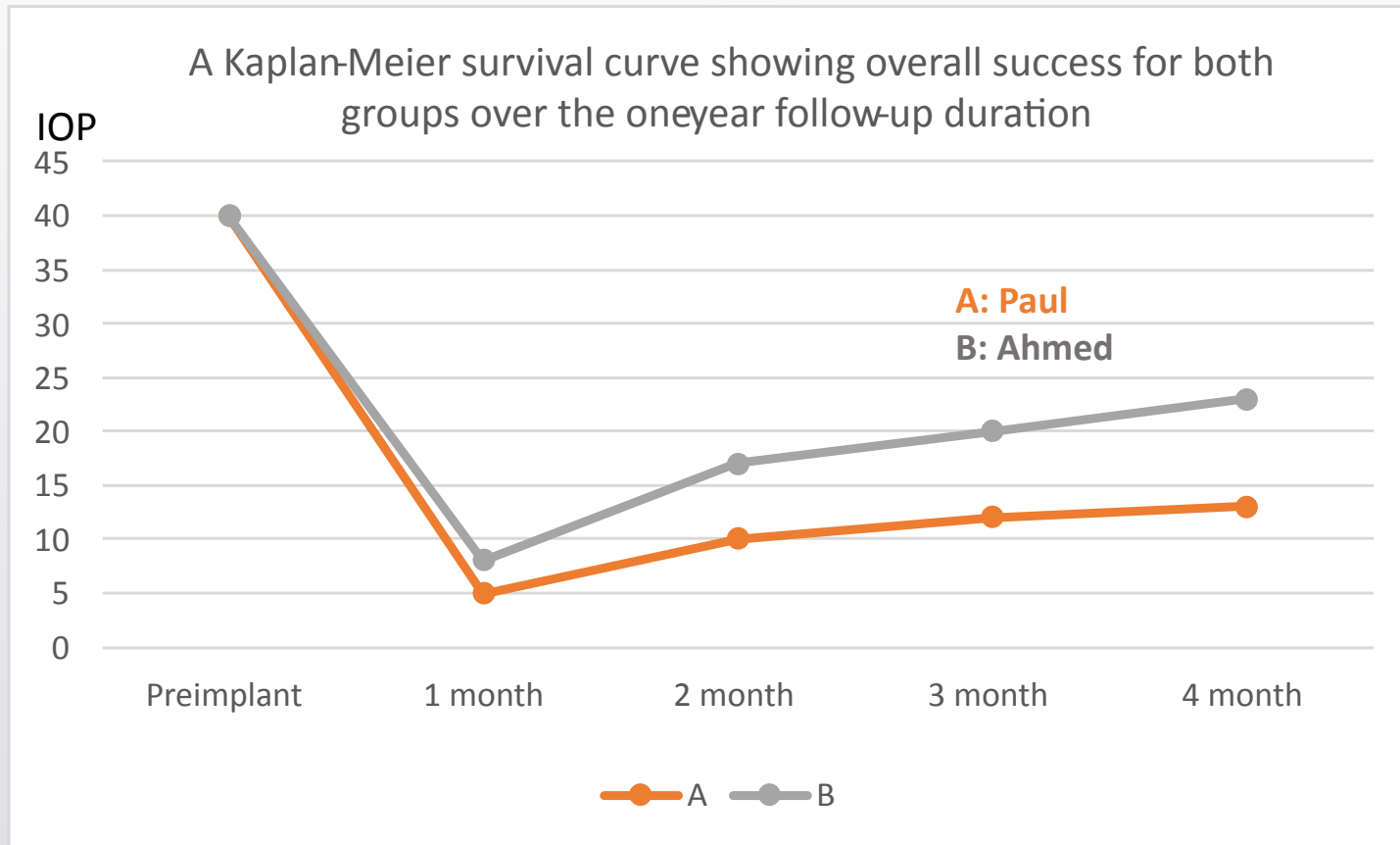


Valve revision



PAUL VALVE IMPLANTATION : After Lensectomy for Lens Induced Glaucoma





Limited literature is currently available about the effectiveness and safety of PGI in childhood glaucoma



Last But Not Least

- Setting an opening pressure for children..... needs pachymetric corrective factor , provided cornea is clear.
- Contact pachymetry and UBM are mandatory to serve childhood glaucoma.
- Thick corneas >650 μm in children overestimate the condition .
- If cornea is edematous other factors other than pachymetry should be considered



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Thank you

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