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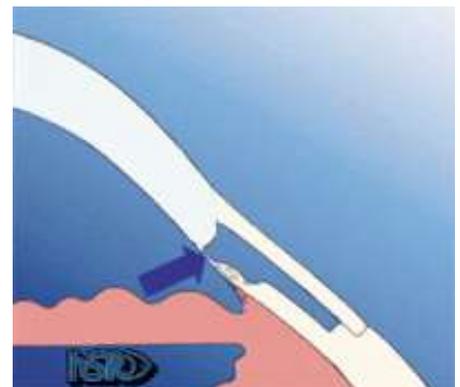
Long term Results Of Viscocanalostomy And Phacoviscocanalostomy In Juvenile Glaucoma

Khaled Mohamed Hassan, FRCSEd
Cataract and Glaucoma unit, National
Alex. Eye center, Egypt



INTRODUCTION; EVOLUTION

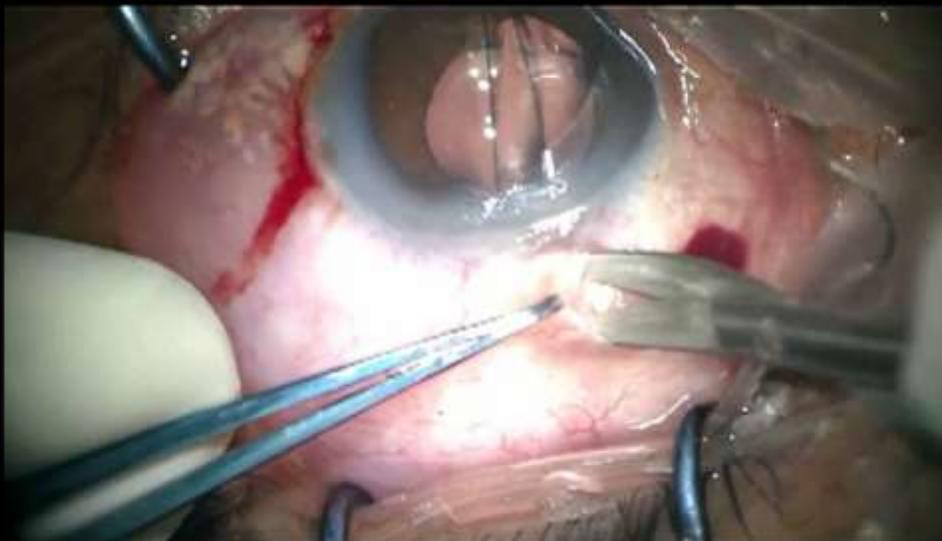
- Non penetrating trabecular surgeries were introduced by Robert Stegmann in 1995 as a modifications of Krasnov technique Sinusotomy(1972)
- It aim to dissect at the trabecular tissue leaving at least the internal trabeculum in place
- No direct communication between the AC and the filtering site (subsclearal filtration)
so it is a non penetrating glaucoma surgery



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TECHNIQUE



KHALED HASSAN

PURPOSE

- ✓ To evaluate the long term results of Viscocanalostomy in juvenile glaucoma
- ✓ Retrospective study conducted to assess the efficacy and complications in young glaucoma patients
- ✓ Patients and methods: demographic and clinical data

| | | |
|--------------------------------|------------------|---------------------|
| Number of eyes | 56 (32 PATIENTS) | |
| Sex male to female | 13/19 | 41 % TO 59 % |
| age | 6-40 mean 28.79 | SD 10.37 |
| NUMBER OF GLAUCOMA MEDICATIONS | 2.70 | SD 1.07 |
| FOLLOW UP DURATION (MONTH) | 12 TO 129 | MEAN 48.33 SD 32.92 |
| PROCEDURE; VISCO ONLY | 37 | 66% |
| PHACOVISCO | 19 | 37% |

01/06/2023

Footer



PATIENS AND METHODS

• INCLUSION CRITERIA

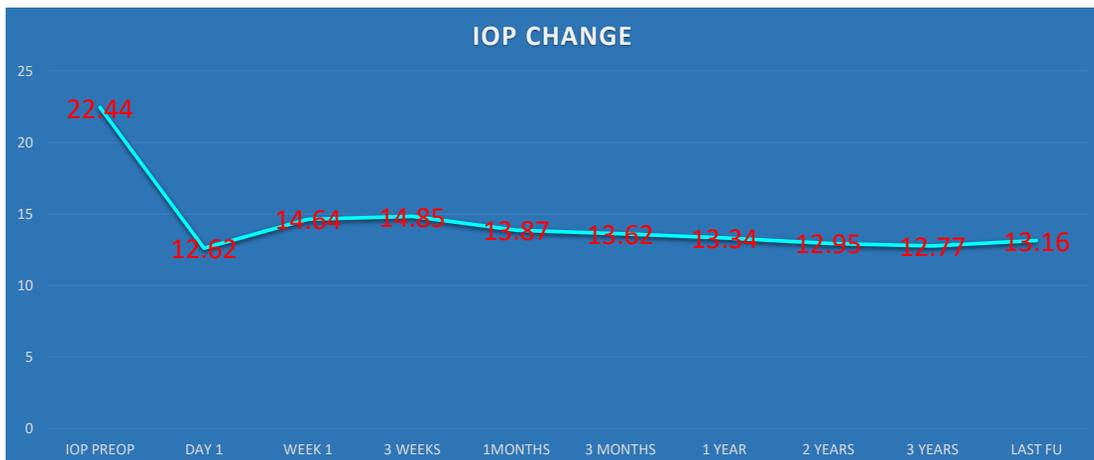
1. Juvenile glaucoma not responding to maximum tolerable medical treatment
2. Juvenile glaucoma associated with cataract or high ametropia are operated by phacoemulsification in association to Visco canalostomy (2 site approach)
3. Success criteria;
 - complete success IOP \leq 21 mmHg
 - relative success if medications needed

• EXCLUSION CRITERIA

1. Buphthalmos
2. Previous Ocular Surgery
3. Secondary Glaucoma; Uveitic, Neovascular, Traumatic,....
4. Short follow up period (less than 12 months)

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RESULTS



RESULTS

- Complete success was achieved in 87.5% of the cases
- IOP reduced by 41% from the preoperative value (last follow up value)
- Glaucoma medicine reduced from 2.69 preop. (SD 1.07) to 0.14 postoperative (SD 0.48)
- Uncorrected visual acuity improved in the Phacovisco. group
- Qualified success was achieved in 94.6 %
- Surgery was repeated in 3 cases (2 had tubes & one repeat surgery)

COMPLICATIONS

- The most common Microperforation (with little impact on the progress of surgery) in 6 cases (10.7%)
- Macroperforation with iridotomy in one case (also completed as NPGS)
- No BLEB RELATED COMPLICATIONS
- NON CATARACTOGENIC
- NO ENDOPHTHALMITIS

CONCLUSION

- Visco canalostomy with or without phacoemulsification can achieve good results in juvenile glaucoma
- The IOP lowering effect was maintained over the time
- Very low incidence of complications, assure its safe profile of and can compensate for the steep learning curve of the procedure

The lack of need for expensive devices as with other minimally invasive glaucoma surgeries make it more suitable for countries with limited resources

THANK YOU!