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continuing care after paediatric glaucoma Sx

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Although paediatric glaucoma is a surgical disease, complete success will not be achieved without managing the patient as a whole

Monitor
AXL &
refraction

Anterior
seg exam

Posterior
segment
changes

Family
members

Genetic
counselling

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Change in Axial Length



Increase of the AXL leads to secondary high axial myopia, with thinning of the sclera anterior and posterior to the equator.



Given the potential visual impairment, high myopia should also be considered as one of the important sessions for PCG management and also monitoring progression



Proper refraction & amblyopia management

- Even when surgical success is achieved, concurrent ametropia correction and amblyopia therapy is essential to optimise long-term visual outcome, which is the **true measure** of success

Visual acuity outcomes in pediatric glaucomas

Monica R Khitri¹, Monte D Mills, Gui-Shuang Ying, Stefanie L Davidson, Graham E Quinn

Affiliations + expand

PMID: 22929453 DOI: 10.1016/j.jaapos.2012.05.007

Amblyopia 60 %

Glau OA 25 %



Thorough ant seg examination



We all focus on IOP and Optic nerve



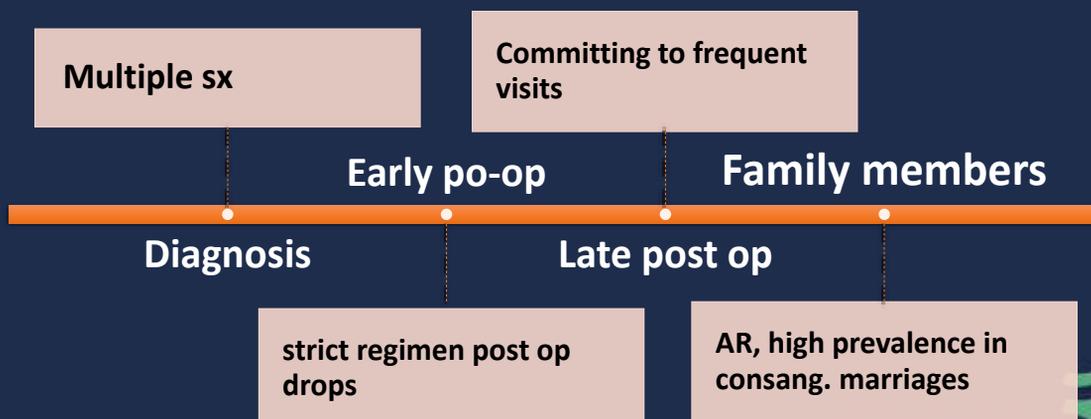
Adult glaucoma surgeries increase the % of cat formation, although no studies mentioned the % in children, it is not uncommon to have complicated cataracts in PCG patients



Corneal diameter measurement is also essential and should be considered in all FUs

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Family counselling



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Genetic testing

- The most reported mutated gene in PCG is *CYP1B1* (cytochrome P450 family 1 subfamily B member 1)
- Another well-known causative gene is *LTBP2* (latent transforming growth factor-beta binding protein 2)
- Other genes in the glaucoma panel:
 - ❖ *MYOC* (Myocilin)
 - ❖ *PITX2* (Axenfield Reiger)
 - ❖ *PAX6* (Aniridia)



Life long follow up

- Those with GDD or trabes are at a life long risk of blinding infections, the risk is as high as 17 % in some studies
- Caution should be given CL
- Swimming pools (wearing protective goggles should be encouraged)

Conclusion

- Apart from controlling the IOP, the management of concomitant amblyopia and other associated ocular pathologies are equally crucial in enhancing the visual outcome of pediatric glaucoma patients.
- Lifelong follow-up are often needed throughout the life course of patients

THANK YOU

See you next year

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