



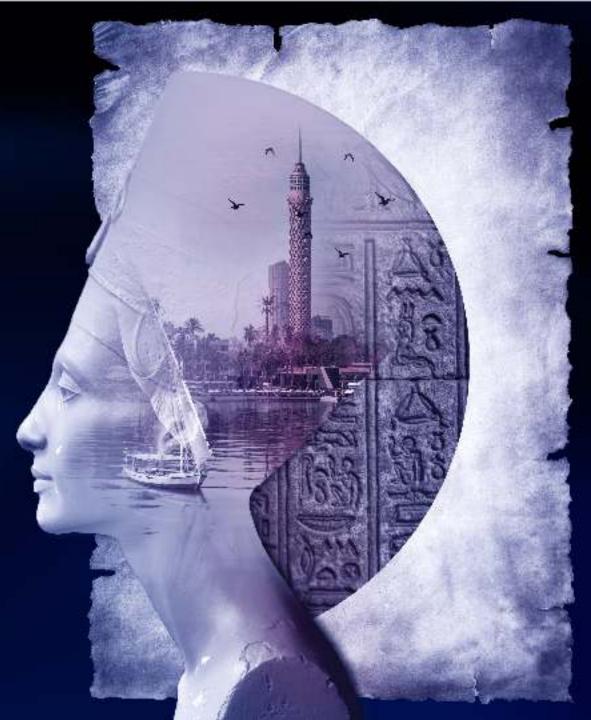
MEACO

ORIGIT ALMOLOGY

In collaboration with:

In the bag IOL implantation followed by PP Posterior capsulotomy

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When to cut: before or after IOL implantation

 There is no universal agreement on whether the IOL should be implanted before or after the posterior capsulotomy and anterior vitrectomy

 AAO strategy: PP posterior capsulotomy following in the bag IOL implantation

Anterior/limbalapproach

- Preferable for anterior segment surgeons
- PCCC is technically difficult and needs experience
- Difficult IOL implantation in a non intact capsule
- Anterior vitreous face disruption
- Reisdual vitreous in the AC (Triamcinolone)—-> risk of RD
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 EGYPTIAN OPHTHALMOLOGICAL SOCIETY



Posterior/ PP approach

- IOL implantation in an intact capsular bag
- No disruption of anterior vitreous face
- OVD can be removed without fear of engaging vitreous





Incidence and Risk Factors of Retinal Detachment after Pediatric Cataract Surgery (A Tertiary Center Model)

Heba Fouad; Jylan Gouda; Christina Ibrahim; Rasha Zedan; Ahmed Awadein; Heba Elgendy; Hala ElHilali

Cairo University Children Hospital Cairo, Egypt

Aim of the study: to determine the incidence and risk factors of RD following pediatric cataract surgery and to compare the incidence of RD in limbal vs pars plicata approach in lens removal

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Methods: Retrospective review of data of all children who underwent pediatric cataract surgery during the time period of 2016 to 2021 in Cairo University Children Hospital. Cataract cases due to trauma, acquired systemic or ocular pathology, and cases with ocular anomalies associated with the development of retinal detachment were excluded.

Results: Among 568 eyes of 372 children undergoing surgery for congenital cataract (66% via anterior approach and 34% via pars plicata approach), 8 eyes (7 children, 1.4%) developed retinal detachment at a mean time of 2.14 ± 1.68 years after surgery. Five eyes had undergone pars plicata lens removal and 3 eyes had undergone lens removal through a limbal approach (p= 0.09).

Secondary glaucoma was detected in 5 of the 8 eyes that developed RD (p value; 0.0001). One eye was controlled with antiglaucoma eye drops, two eyes needed cyclo-photocoagulation and two eyes needed glaucoma surgeries. Age, sex, reoperation for visual axis opacification, primary IOL implantation and secondary IOL implantation did not affect the incidence of retinal detachment (p value 1, 0.39, 0.92, 0.59, 0.35 respectively).

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Conclusion:secondary glaucoma was associated with higher incidence of RD, surgical approach did not affect the incidence, a larger sample size is needed to confirm this observation

Posterior/ PP approach place of incision

- Less than one year: 2 mm from the limbus
- 1-4 years old: 2.5 mm from the limbus
- Over 4 years: 3 mm from the limbus





size of posterior capsulotomy

• 4.5-5 mm

• 1-1.5 mm smaller than optic diamter



pp posterior capsulotomy or pp posterior capsultomy+ anterior vtirectomy?

- less than 5 years: anterior vitrectomy is a crucial step
- 5-8 years: controversial



Posterior/ PP approach :settings

- Gauge:20, 23 or 25 G
- posterior capsulotomy:lower cutting rate, higher vaccum
- anterior vitrectomy: higher cutting rate, lower vaccum



Heba Fouad, MD

Conclusion

- Posterior capsultomy and anterior vitrectomy are essential surgical steps in the management of pediatric cataract surgery
- Surgical approach is best left to the individual surgeon's preference and experience
- AAO recommends pars plana/plicata approach as the safest and most effective technique for posterior capsultomy and anterior vitrectomy while ensuring a well centered IOL and a clear visual axis

Thank You