



TRAUMATIC PEDIATRIC CATARACT

“ 5 PEARLS “

PROF.DR. ABDALLAH K. HASSOUNA, M.D

PROFESSOR OF OPHTHALMOLOGY, AIN SHAMS UNIVERSITY, EGYPT

VICE CHAIRMAN,AL WATANY EYE HOSPITAL, EGYPT

PRESIDENT,ARVO-EGYPT

INTRODUCTION

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Ocular trauma causes 12–46% of all pediatric cataracts



INTRODUCTION

The 5 Pearls we are going to discuss

1. Timing of the surgery & IOL implantation
2. Capsular Staining
3. Posterior Capsulotomy & Anterior Vitrectomy
4. Be prepared with micro-scissors, forceps, CTR, iris hooks, etc..
5. Close Iris defects promptly

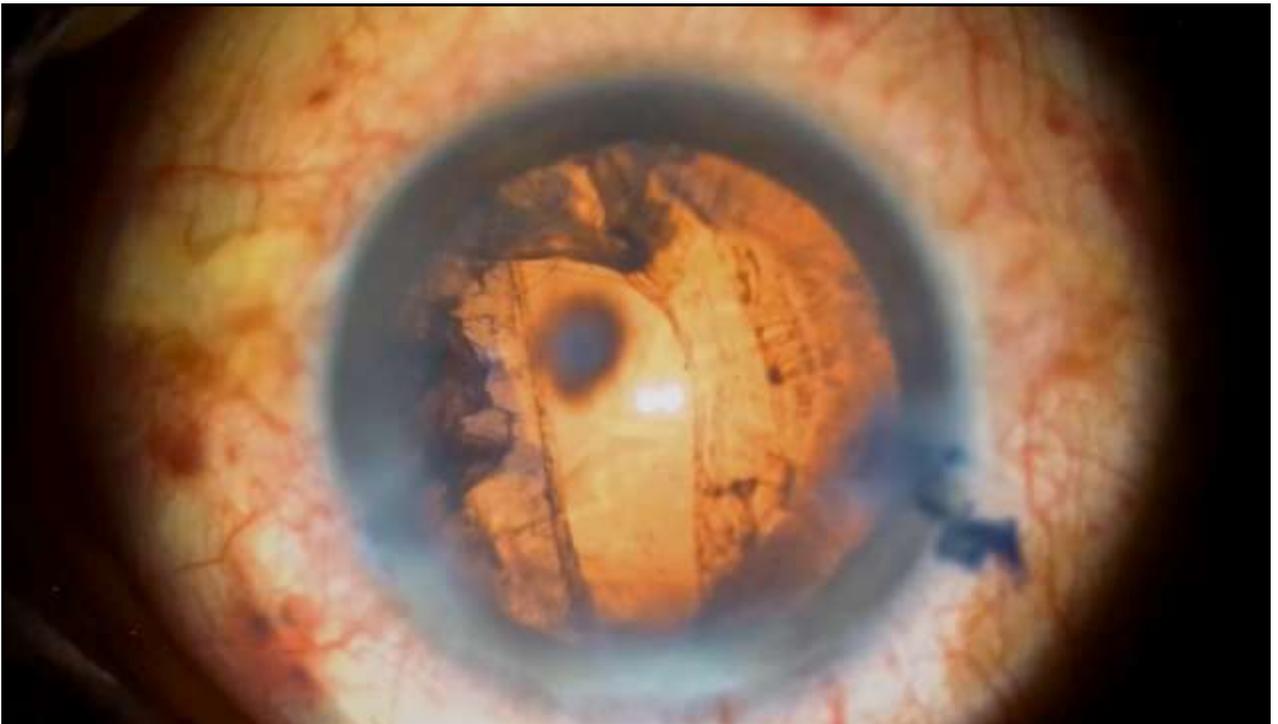
TIMING OF SURGERY & IOL IMPLANTATION

TIMING OF SURGERY

- lens capsule rupture with lens material in anterior chamber, is tolerated well in children. A second surgery can be planned after, primary closure of the globe
- A multistep procedure after control of inflammation, with adequate corneal clarity and an appropriate IOL power calculation, should be adopted.
- The timing of cataract surgery and IOL implantation in trauma continues to be debated worldwide, current data suggests improved visual outcome results from intervention at (2-30) days

IOL IMPLANTATION

- Determination of the correct IOL power prior to surgery may be difficult, if not impossible, for a variety of reasons.
- Often the other eye serves as a guide
- I usually aim at +1.00 diopters
- In case IOL implantation is not possible, it can be placed in sulcus with or without optic capture





CAPSULAR STAINING



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- It is useful to stain the capsule with trypan blue to increase its visibility, useful in cases with white cataract and ruptured lens capsule



POSTERIOR CAPSULOTOMY & ANTERIOR VITRECTOMY



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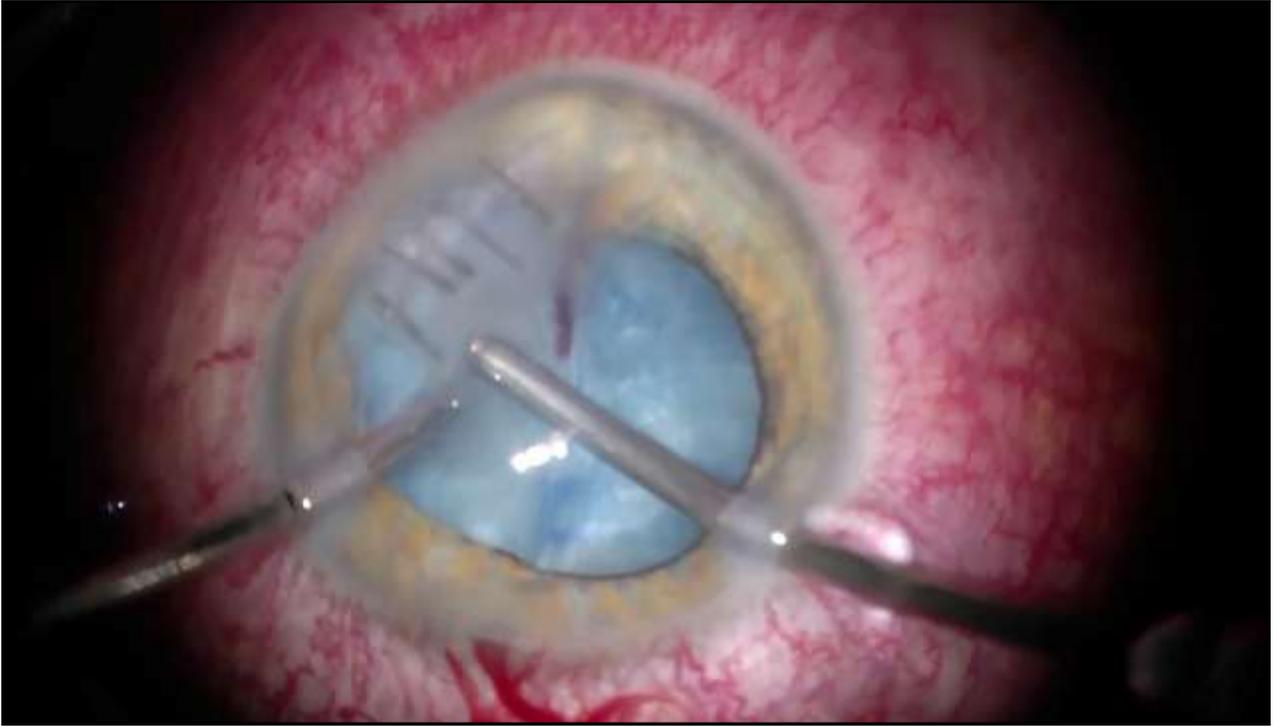
- Posterior capsulotomy and anterior vitrectomy can reduce the chance of visual axis opacification.
- A rhexis forceps, or a micro-forceps can be used in doing the posterior capsulorhexis, however anterior vitrectomy cutters did prove to be efficient as well.

BE PREPARED WITH YOUR TOOLS

MICRO-SCISSORS, FORCEPS, CTR, IRIS HOOKS

BE PREPARED WITH YOUR TOOLS

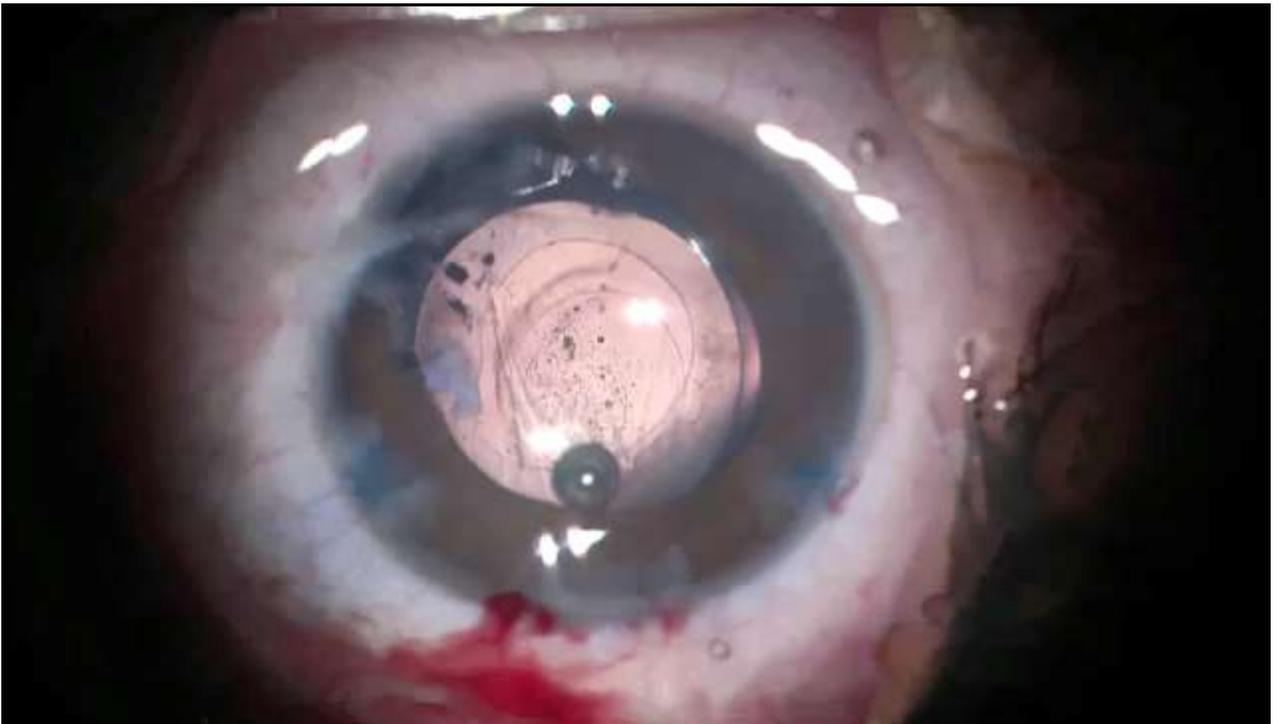
- Cases with anterior capsular plaque or fibrosis might need microincision scissors and forceps to create an opening.
- Capsular tension ring or Cionni ring might be needed in cases with subluxation.
- In cases of narrow pupil with opened anterior capsule, iris hooks are superior to Malyugin ring



CLOSE IRIS DEFECTS PROMPTLY

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- Iridodialysis and iris tears can be repaired during the surgery by using 10-0 prolene sutures.
- In cases of partial or total aniridia, Aniridia IOLs (ex. Morcher) can be really efficient in improving visual outcome



THANK YOU

