

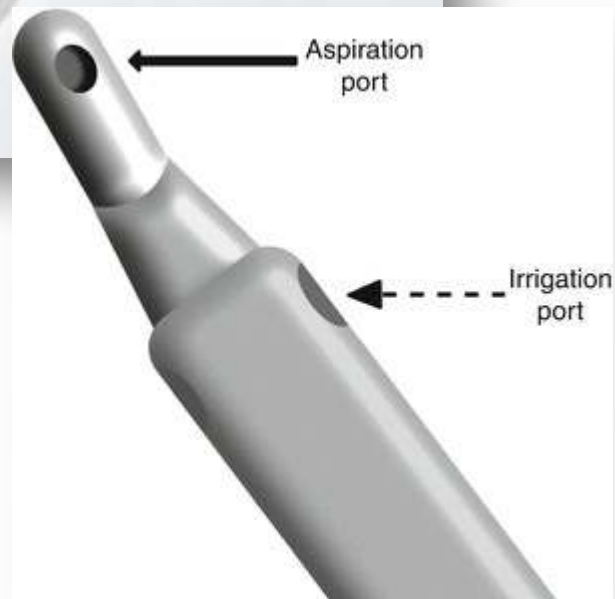
Irrigation Aspiration In Pediatric Cataract: Different Perspective

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Our Target

- ▶ Clear visual axis
- ▶ Prevent PCO which is the commonest postoperative complication
 - Thorough IA of cortical lens matter.
 - Polishing of the undersurface of the anterior capsule.
 - Management of any posterior capsular plaque.

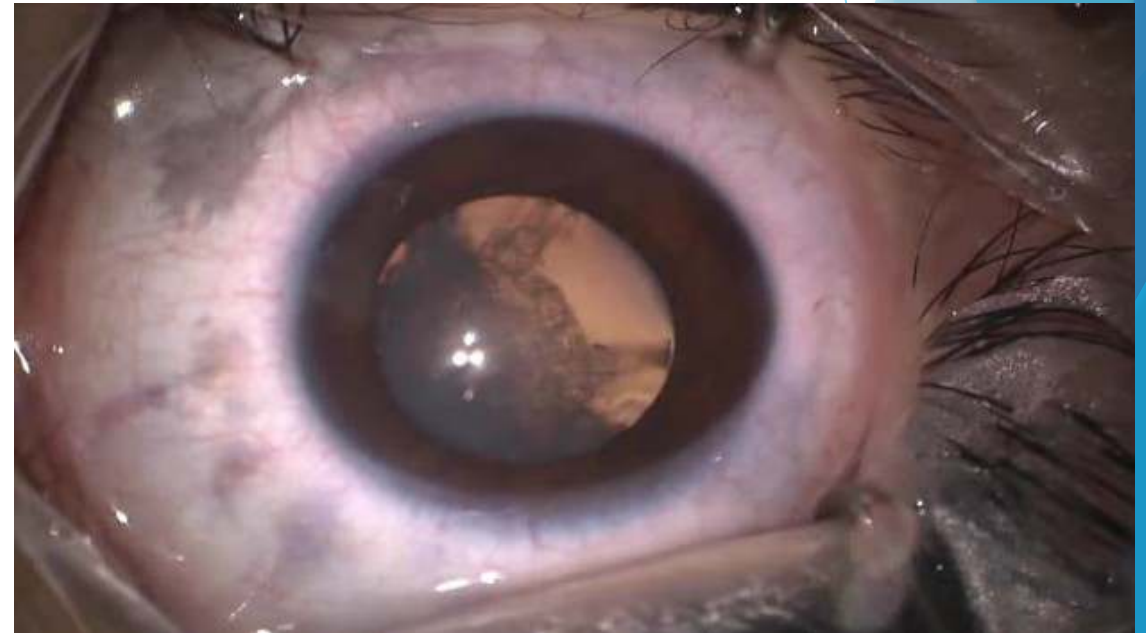
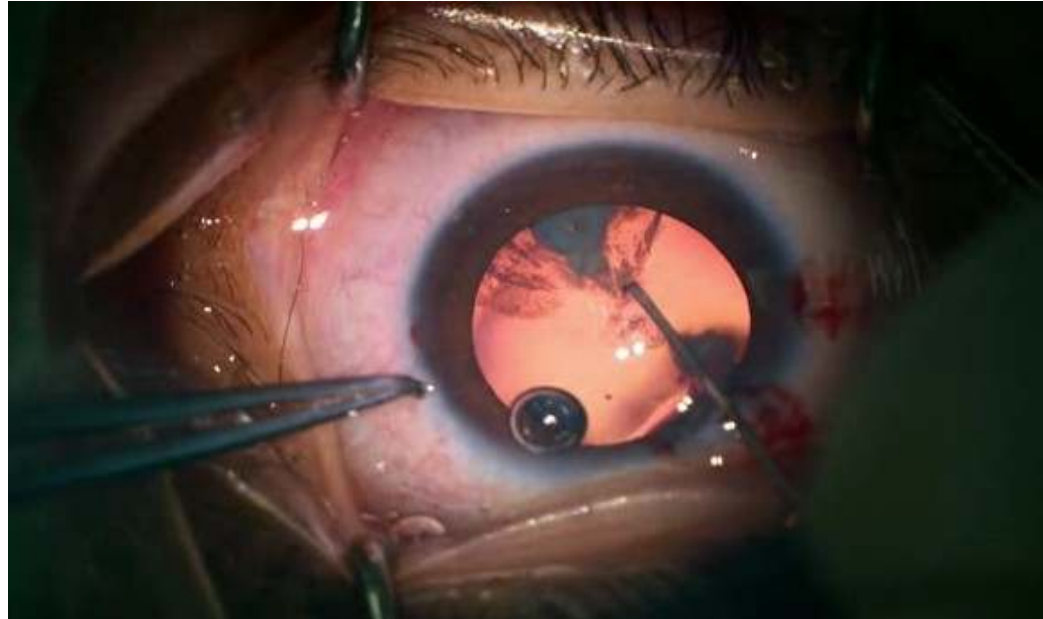
What is needed



What is needed

- ▶ Bimanual irrigation aspiration cannulas , which ensures proper thorough removal of all cortical lens matter in addition to polishing undersurface of ant capsule and post capsule
- ▶ Coaxial irrigation aspiration which will make aspiration of subincisional lens matter more difficult
- ▶ Vitrectomy probe on the IA/Cut mode # Cut/IA mode esp in cases with opened post capsule as posterior lenticonus or traumatic cataracts
- ▶ IA has to b performed through tight incisions to avoid AC fluctuation , hence decreases any inflammatory reaction. (*keep globe pressurized*)

What we want



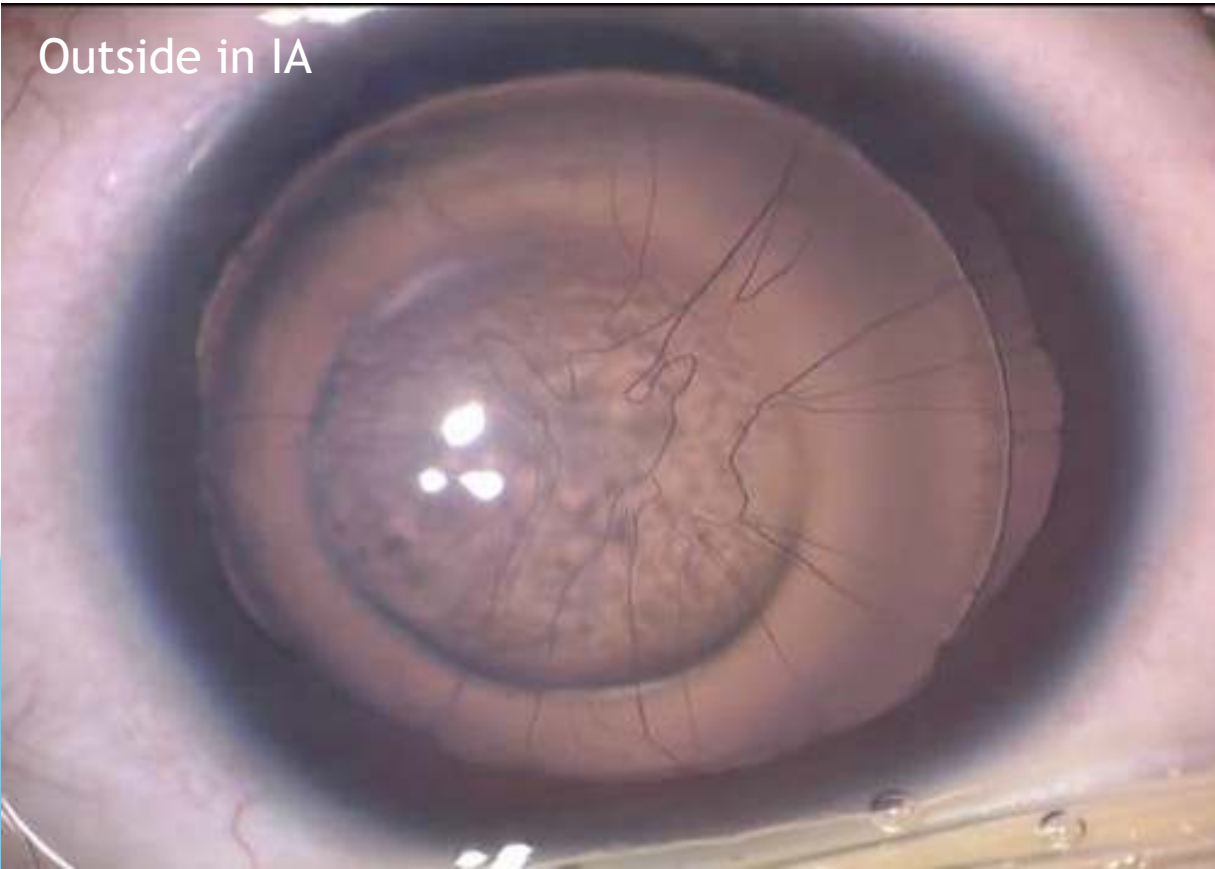
Proper Hydrodissection

- ▶ This is required in pediatric cataract by irrigating fluid or OVD
- ▶ It has to be applied in different quadrants to dissect cortical lens matter from the capsular bag
- ▶ This ensures complete aspiration of cortical lens matter and shorter surgical time
- ▶ Has to be avoided in cases of posterior lenticonus, post polar cataract & traumatic cases where posterior capsular tears are suspected.

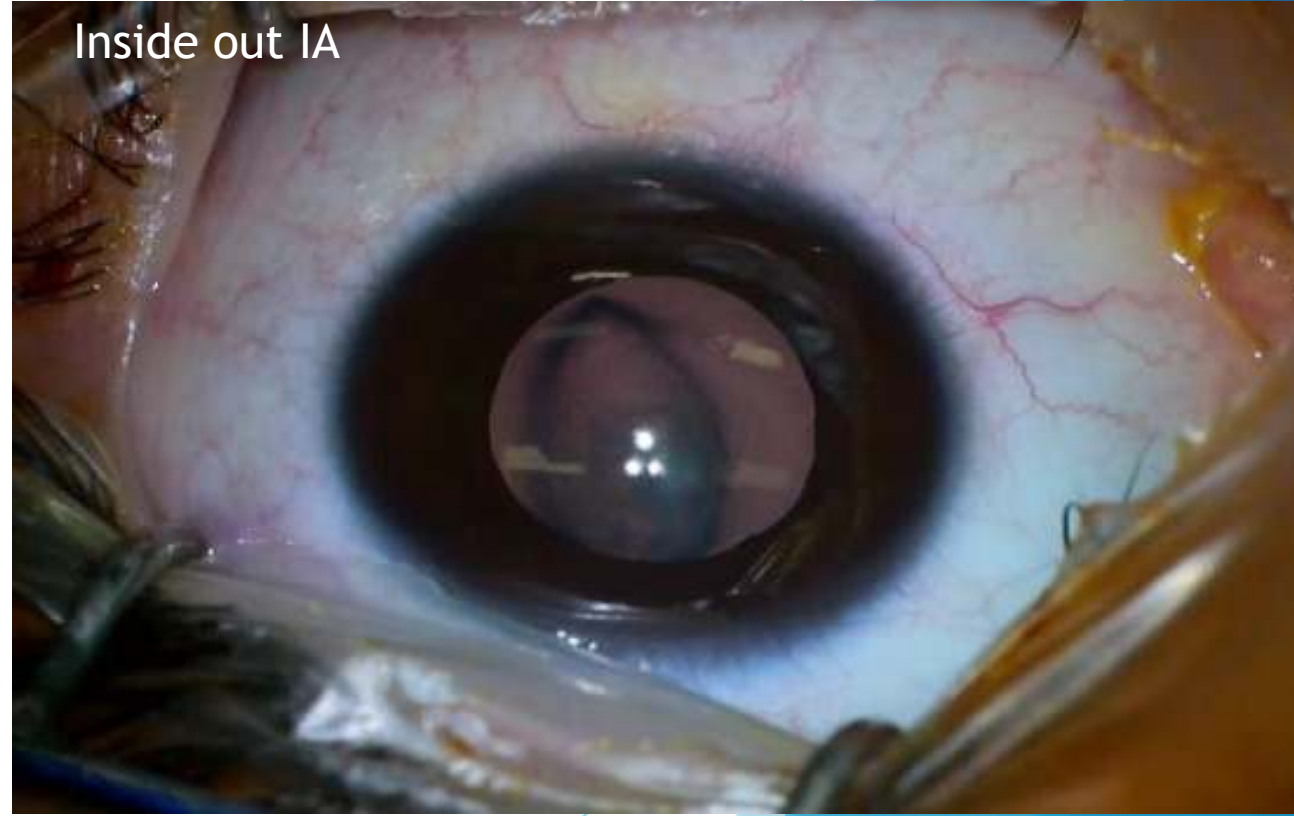
Challenging Situations

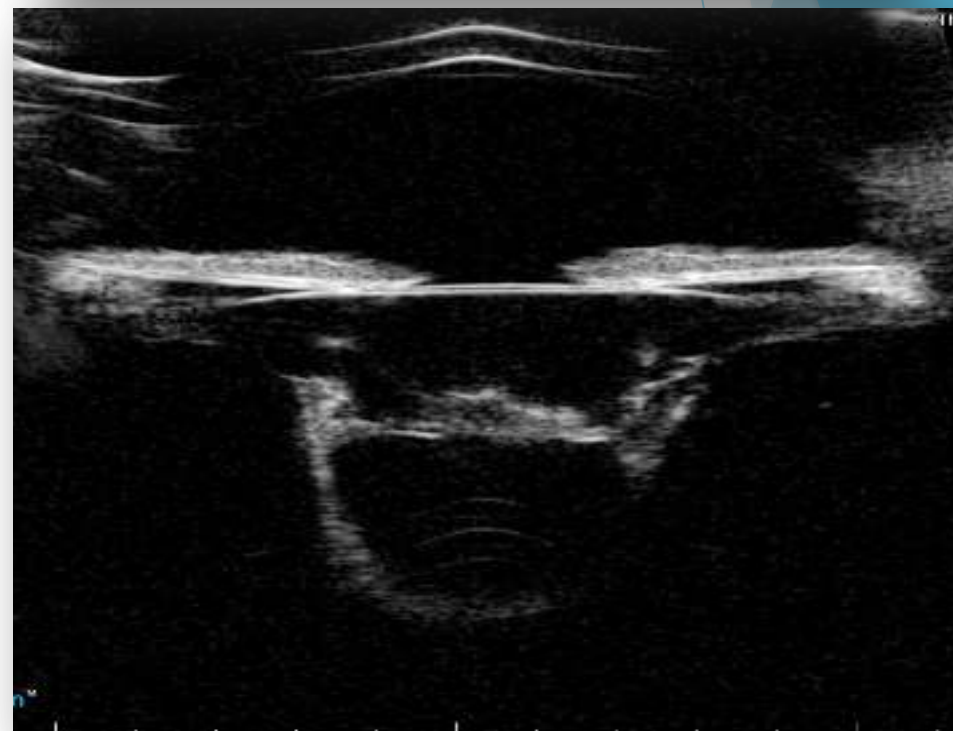
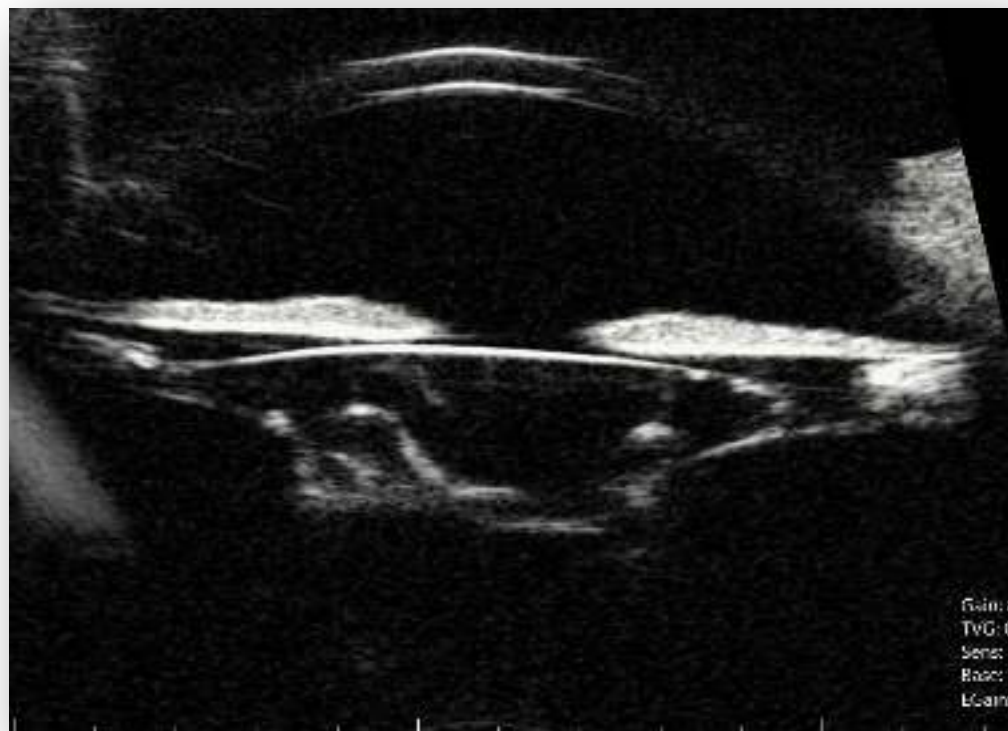
Posterior Lenticonus

Outside in IA



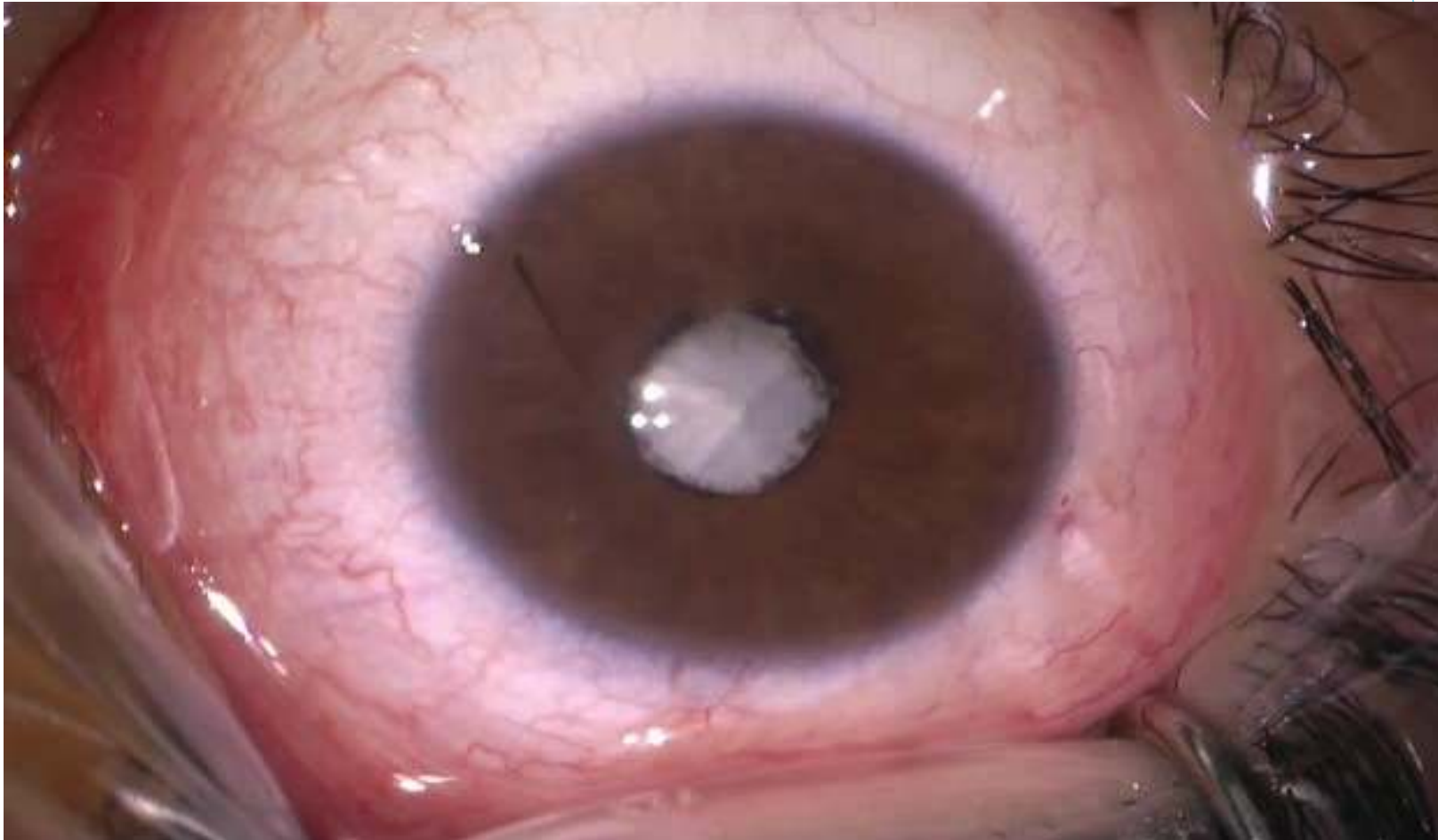
Inside out IA





Challenging Situations

Uveitic Cataract

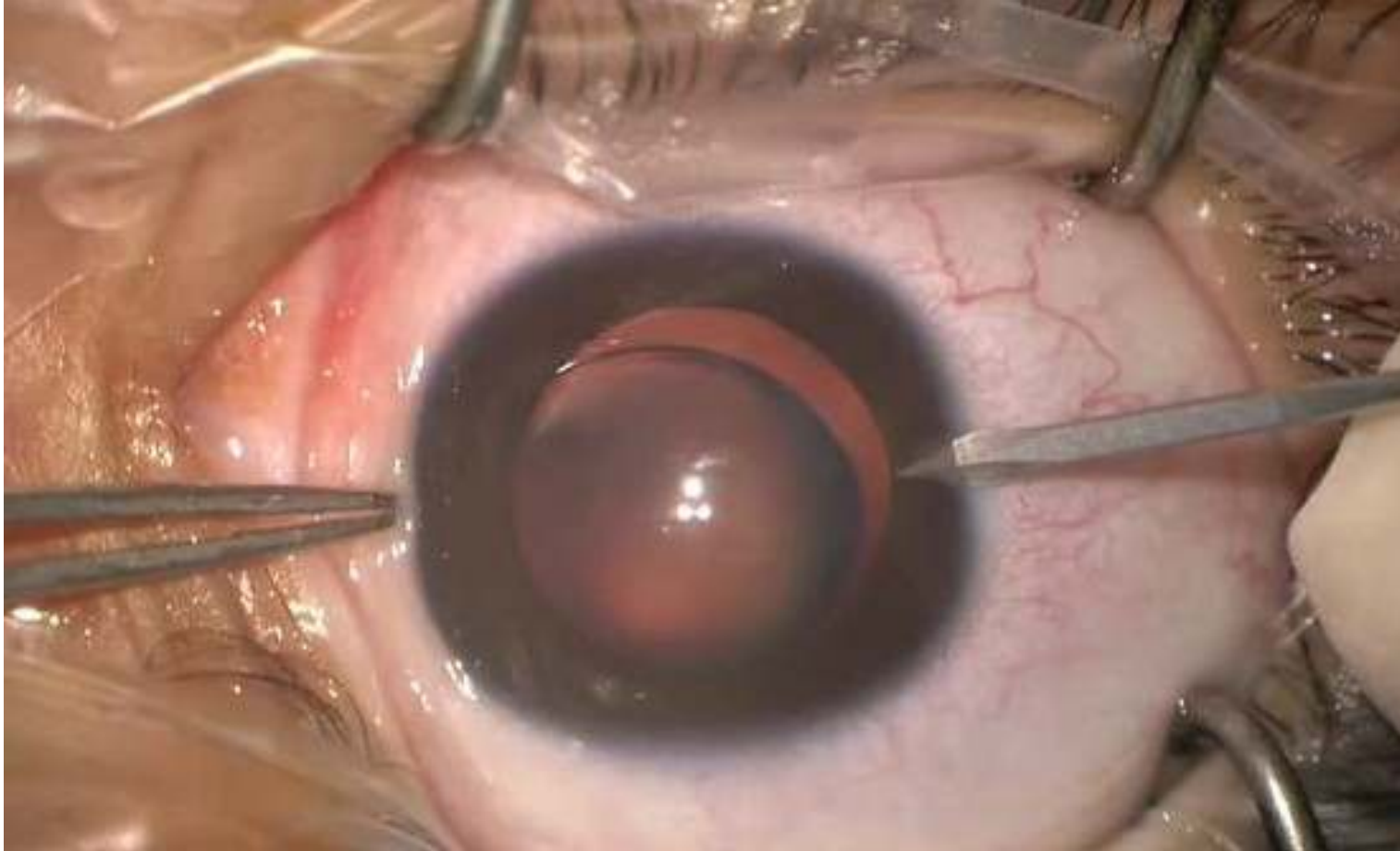


Challenging Situations (*uveitic cataract*)

- ▶ Gentle hydrodissection is required to mobilize cortical lens matter
- ▶ Thorough irrigation of lens matter to avoid any inflammatory reaction
- ▶ Thorough removal of OVD to avoid post operative inflammation and IOP elevation.

Challenging Situations

Spherophakia



Posterior Capsular Opacification

- ▶ Proliferation of anterior subcapsular epithelial cells together with equatorial germinal cells result in PCO
- ▶ PCO can be either
 - Proliferative or
 - Fibrotic





To Wrap Up

- ▶ Thorough IA of cortical lens matter ensures clear visual axis
- ▶ Be prepared with your armamentarium esp in challenging cataract cases
- ▶ PCO and after cataract are the commonest postoperative complications in pediatric cataract surgery

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the image, creating a modern, layered effect.

Thank You

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