Preventing Visual Axis Obscuration

Vladimir Pfeifer University Eye Hospital Ljubljana

Our goal

- Clear visual axis
- Forever
- No need for repeated general anesthesia
- Refraction



• The pathology and anatomical situation determines if the IOL should be implanted in congenital cataract and not the age of child



Implant IOL or not criteria

- Anterior CCC
- Posterior CCC
- Anterior vitrectomy



What lens and how to implant

- 3 peace IOL (the IOL should enable the optic capture or buttonholing. The anterior and posterior portion of CCC should stick together.
- Bag in the lens



















Persistent Fetal Vascular Syndrome

In addition to the microphthalmia in some cases, the thick posterior capsular complex can be quite difficult to remove. This complex is formed from a combination of capsule and fibrovascular tissue that remains after partial regression of the secondary vitreal structures









Preop • Light perception • rowing eye movements • Surgery at 5 and 4 months • **Constant of Constant of Constan**























20 children (28 eyes) participated in this retrospective study. All eyes underwent congenital cataract surgery within the first 12 months of life (mean 5.7±2.9months, range: 1.6-11.9)

After at least 5-year follow-up (mean 6.5±1.8 years, range: 5.0-8.9) a secondary procedure was performed to clear visual axis in 2/22 pseudophakic eyes and in 2/6 aphakic eyes

 Visual axis remained clear in more than 90% of eyes with primarily implanted IOL. Surgical technique which included PCCC with anterior vitrectomy, optimally followed by 3-piece-IOL implantation in the capsule with optic capture, proved to be effective in our series of children. Aphakic eyes developed VAO in 30% at the mean follow-up of 6.5 years.





Conclusion

Proper surgical technique can diminish or eliminate need for secondary surgery and repeated general anesthesia

