Goretex Suture for PC IOL Placement w/o Capsular support
IOL Options in the Absence of Posterior Capsule Support

- AC IOL
- PC IOL suture fixated to iris
- PC IOL suture fixated to sclera
- PC IOL glued under scleral flap or secured in scleral tunnel
AC IOL

- Ease/short duration of surgery
- Difficult sizing
- Contraindicated in disorganized anterior chamber
PC IOL Sutured to Iris

- Technically challenging/longer duration of surgery
- Requires iris tissue and some form of pupil
- Avoids conjunctival manipulation
- Higher incidence of IOL decentration/tilt and pupil distortion compared to scleral fixation
PC IOL Sutured to Sclera

- Technically challenging/longer duration of surgery
- If lack of available conjunctiva can use Hoffman pocket
- Permanent suture (off label 8-0 Gore-Tex) to prevent late dislocation
- Does not require iris tissue/pupil
PC IOL Sutured to Sclera

- Hole in haptics facilitates surgery (non-foldable optic – 7.5mm incision) and does not require a scleral flap/tunnel; knots can be rotated into sclera or ends left long beneath the conjunctiva.

- Foldable optic requires suture tied to haptic buried under scleral flap – 4mm incision.
PC IOL Sutured to Sclera

- **10-0 polypropylene:**
  - 8 inches
  - Straight or curved double armed needles
  - $23/suture

- **9-0 polypropylene**
  - 8 inches
  - Straight double armed needles
  - $35/suture
PC IOL Sutured to Sclera

- 8-0 Gore-Tex
  - 18 inches
  - double armed curved needles
  - $25/suture
  - off label - “not for use in the eye”
Sutureless PC IOL Glued Under Scleral Flap or Secured in Scleral Tunnel

- Technically challenging/longer duration of surgery
- Requires conjunctival incision and scleral flap/tunnel
- Use of tissue adhesive is off label
- Does not require iris tissue/pupil
PC IOL Glued to Sclera

- Requires intraocular gymnastics that could potentially result in dropping IOL into posterior segment and/or break off haptic(s)
- Allows for foldable optic and smaller 4mm incision
- Allows for fixation of existing dislocated IOL without removal/exchange
Ab Externo Scleral Fixation of Intraocular Lens

Slade DS, Hater MA, Cionni RJ, Crandall AS.

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