

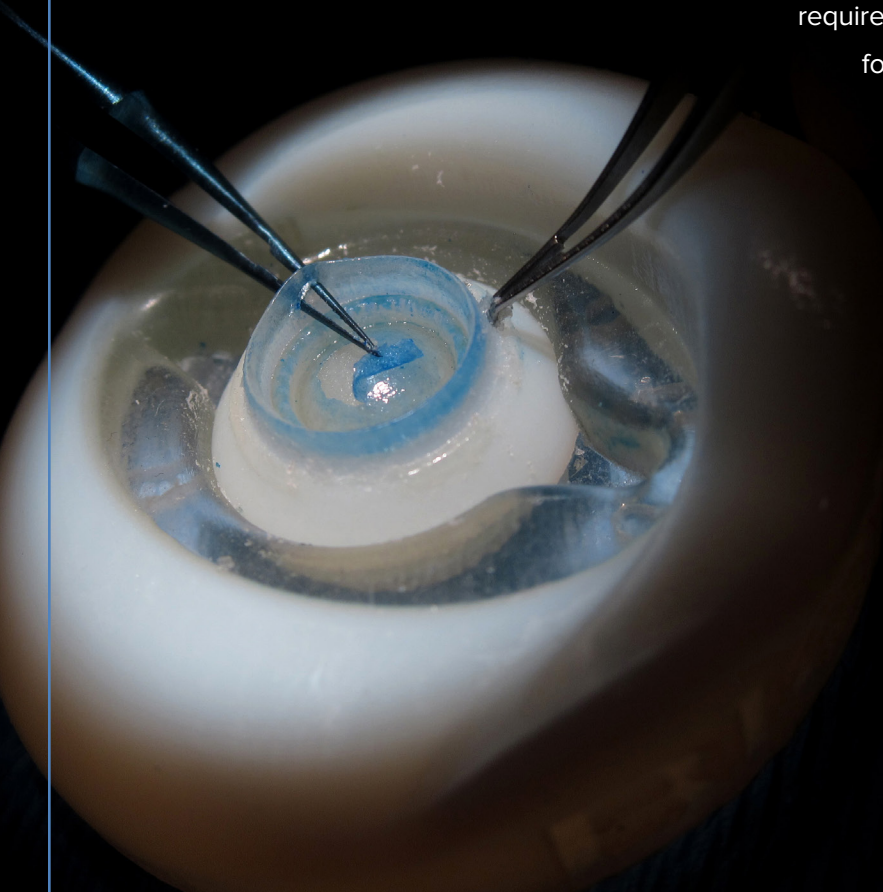
RHEXIS

Instrument Control Task



Instrument control through ports is a fundamental skill in ophthalmic surgery. However, it is a common weakness among aspiring surgeons due to the lack of operative experience and suitable feedback from available models.

By presenting the main challenges of a capsulorhexis scenario, the **RHEXIS** task allows users to learn, train and perfect the fine motor skills required to properly use the wound as a fulcrum point for instrument movement.



The task consists in performing a capsulorhexis by manipulating instruments through an incision on a delicate limbus rim. Improper instrument control will cause stress and damage to the limbus, providing feedback to the user. In addition to a proper capsulorhexis, minimizing damage to the limbus rim is key to complete the task successfully. With practice the user will increase confidence, reduce time to completion, improve rhexis shape, size and centration, and minimize stress on the wound.

Pat. Pending

- 1 - LENS CAPSULE
- 2 - LIMBUS RIDGE
- 3 - SCLERA
- 4 - WOUND
- 5 - INSTRUMENT

FEATURES AND BENEFITS

- Repeatable and available
- Limbus ridge designed to provide instrument handling feedback
- Encourages good practices:
 - posterior incisions
 - regrasping
 - wound awareness
- Improve surgical skills confidence
- Develop instrument control
- Decrease reliance on donor tissue for training
- Decrease wound size
- Improve time to completion
- Asses instrument control by checking wound integrity
- Assess execution by measuring rhexis size and centration

