

SimuloRhexis® 2.0 Eye and Kit

Identifying the Parts

1. **Multi-Base AP:** modified Multi-Base with **Access Port** which allows use of Syringe and Cannula + Tubing (supplied with Kit) to adjust the posterior pressure
2. **Capsule 8.0** is installed inside the Eye to “Make-A-Rhexis”
3. **Reusable Lens** is in place within the Capsule 8.0
4. **Eye Front SimuloRhexis® 2.0:** multi-use cornea-scleral shell with a 7.5mm pupil
5. **SimuloRhexis® 2.0 Rhexis Films** are supplied with the Kit and do NOT come with the standalone Eye

Reusability

- The **Multi-Base AP** and **Capsule 8.0** can be reused with different types of **Eye Fronts**
- Additional **Eye Fronts** are available separately

Inserting Capsules into Multi-Base AP

1. **Remove Eye Front** if attached
 2. **Place Capsule (5.5 or 8.0) face down** on a flat surface
 3. **Hold Multi-Base AP** in dominant hand
 4. **Align** bottom part of capsule within hole of Multi-Base AP
 5. **When capsule is aligned in the hole, simply press down to install capsule**
 6. **Confirm Capsule is straight** and securely in place
 7. **If Posterior Capsule is elevated, use Syringe and Cannula + Tubing to adjust posterior pressure**
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Step-by-Step Instructions

1. **Remove Red Clip** (if attached)
2. **Remove Reusable Lens** from Capsule 8.0 -- use **Blue Spear** if needed
3. **Place DISPERSIVE** Viscoelastic Substitute in Capsule -- **avoid puncturing**
4. Reinstall Lens -- **flat side anteriorly**
5. Dispersive visco will displace and surround the Lens
6. Leave a **thin layer of visco** on top of Lens
7. Place **Rhexis Film** on top of Lens -- **WHITE side up**
8. Install Eye Front
9. Install Red Clip on **opposite side of Access Port**
10. **Attach 1cc Syringe to Cannula + Tubing**
11. Set Syringe Plunger to the **midpoint arrow**
12. **Insert Cannula into the Access Port**
13. Mount Eye to Elevated Base – keep Syringe off to the side
14. **Mark Incision Locations** on the Eye
15. **Make the Incisions**
16. Fill AC with Viscoelastic
17. **Place Dispersive Viscoelastic** over the entire cornea to improve visibility
18. **Adjust posterior pressure with Cannula**
19. **Increase pressure just until Anterior Capsule wrinkles disappear**
20. More pressure increases tension in the capsule – tears will extend outward
21. Perform continuous curvilinear capsulorhexis (CCC).
22. Increase pressure and practice rescue maneuvers
23. Return pressure to normal and remove Cannula
24. Remove Red Clip and Eye Front
25. Remove used Rhexis Film – press on sclera to release from Eye Front
26. Reset Eye -- add Visco to Capsule as needed, replace Rhexis Film and reassemble Eye

Cleaning and Storage

1. Remove and clean Eye Front
2. Discard used Rhexis Film
3. Remove Reusable Lens, IOLs, CTRs or other devices from the capsule
4. Clean and **lubricate Capsule** with Blue Spear
5. Reinstall Reusable Lens in Capsule
6. Attach Eye Front and Red Clip
7. Wipe down exterior
8. Store eye **face down** in original container
9. Return Eye and accessories to Kit box

To reuse: Follow the instructions from the beginning

Important Notes

- **Suction Cup** is permanently attached – **Do Not Remove**
- **Do not break** the capsule – pressure control will be lost
- Avoid **air bubbles** in the capsule bag or beneath the film

General Tips

- Mark incisions **before** applying viscoelastic
 - Align main incision with the **corneal peripheral reference mark**
 - Use SimulEYE **Dispersive Viscoelastic** over cornea for best clarity
 - **SimulEYE Lighted Base** enhances red reflex
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SimuloRhexis® Tips

Rhexis Film Orientation

- **White side up** allows close contact of Film with Lens
- Ensure thin layer of visco between lens and capsule with no bubbles in bag or beneath Film

Syringe and Cannula + Tubing

- Set Plunger of Syringe to Midpoint Arrow **BEFORE** inserting Cannula into Access Port

Red Clips

- Install **OPPOSITE the Access Port and Below Main Incision**
- Internal groove positioned **at TOP**

Cystotome vs Rhexis Forceps

- Initiate tear with cystotome -- cutting edge on **SIDES** of needle
- Initiate tear with toothed forceps -- cutting edge aligned with tooth

Capsule Characteristics

- Capsule is friable when initiating tear – similar to a stained capsule
- Fold flap to start tear cleanly

Use Full Rhexis Film

- Lots of practice from each Film
- Reinitiate tears and extend rhexis where needed
- Try different techniques and rescue maneuvers
- Increase posterior pressure gently with Syringe
- Focus on control and directing the tear
- Start small, spiral outward, tear out to and under the iris edge
- Understand Shear vs Rip - different techniques for different situations
- Tension On vs Tension Off - tear will not propagate when tension is off

Capsule Lubricant

- Helps rotate and remove Reusable Lens
- Allows CTRs to track around the capsule
- Apply a **small drop** inside clean, dry capsule
- Use **Q-Tip** or **Blue Spear** to spread and remove excess
- Reapply after multiple uses

Advanced Training Options

SimuloRhexis® 2.0 is modular and acts as a platform on which to build for practicing other techniques

Use with Capsule 5.5 (sold separately)

- Features “Pre-Made Rhexis” for IOL insertion and removal, working with CTRs or other capsule support devices

Alternate Eye Fronts

- **Small Pupil 2.0 Eye Front** -- combine small pupil management and capsulorhexis training
- **ISHF (Yamane) Eye Front** – remove capsule to install