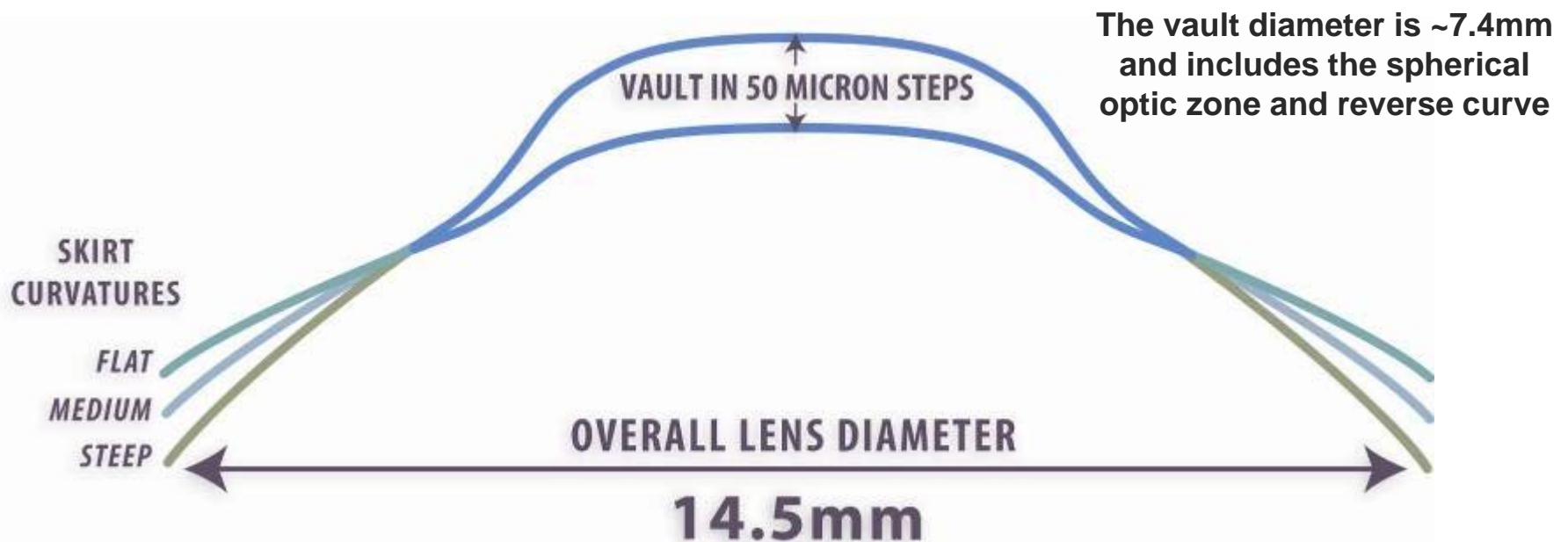




# Basic Fit Training

# Vault and Skirt Curvature

*ClearKone* is available in 11 different vaults of which each can be ordered in 3 different skirt curvatures; flat, medium and steep.



The fit of the vault is independent of the fit of the skirt curve.  
Each should be fitted separately.

# ClearKone Diagnostic Set



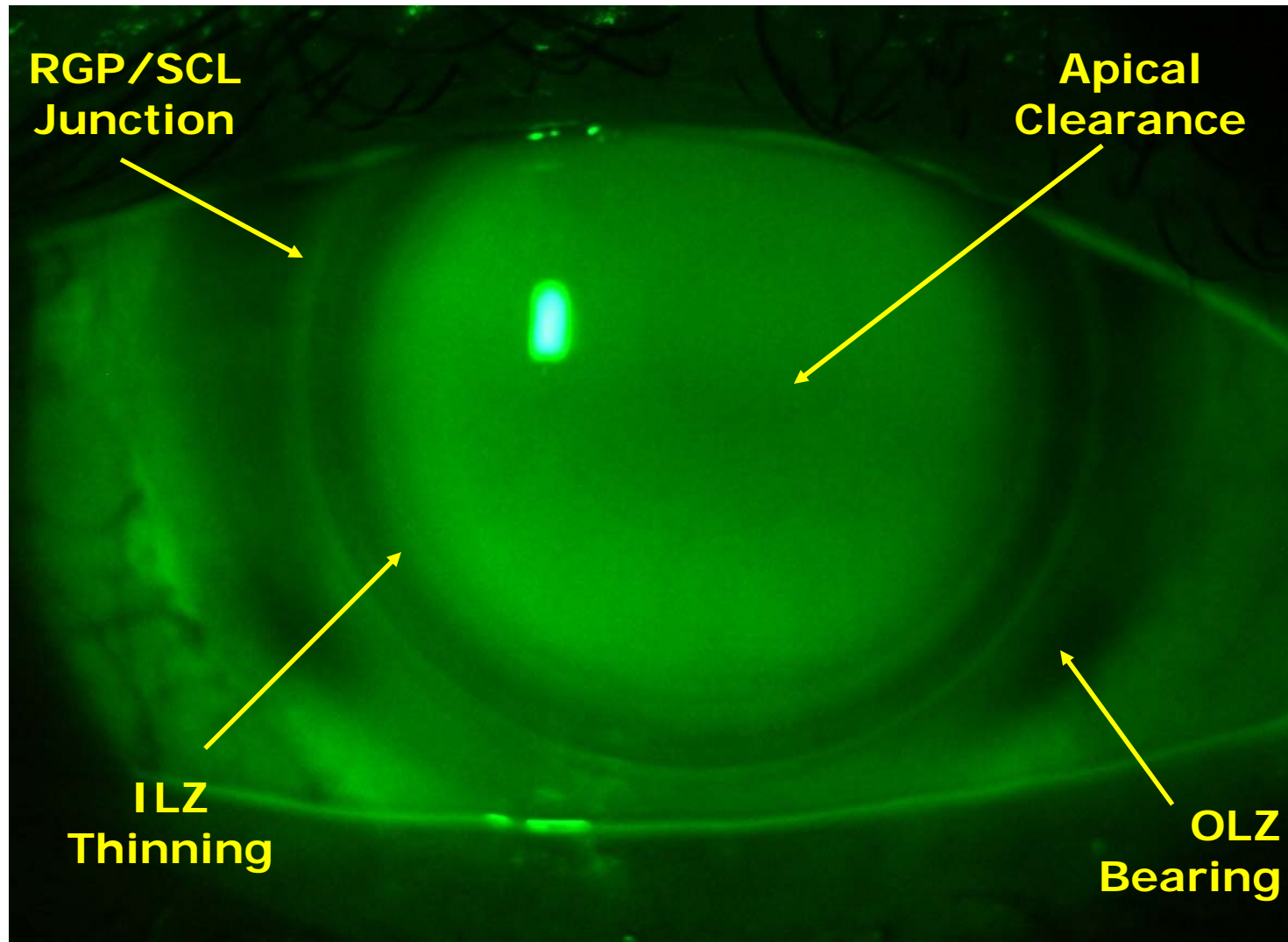
22 lens diagnostic set:

- 11 Vaults: 100 – 600 $\mu$  in 50 $\mu$  steps
- 2 Skirt Curvatures for each Vault: Medium and Steep
- DMV scleral cup inserter
- NaFL illuminating cobalt pen light
- Wratten filter



**Each Dx lens has laser markings that indicate its lens type, vault and skirt curvature**

# Ideal *ClearKone* Fit



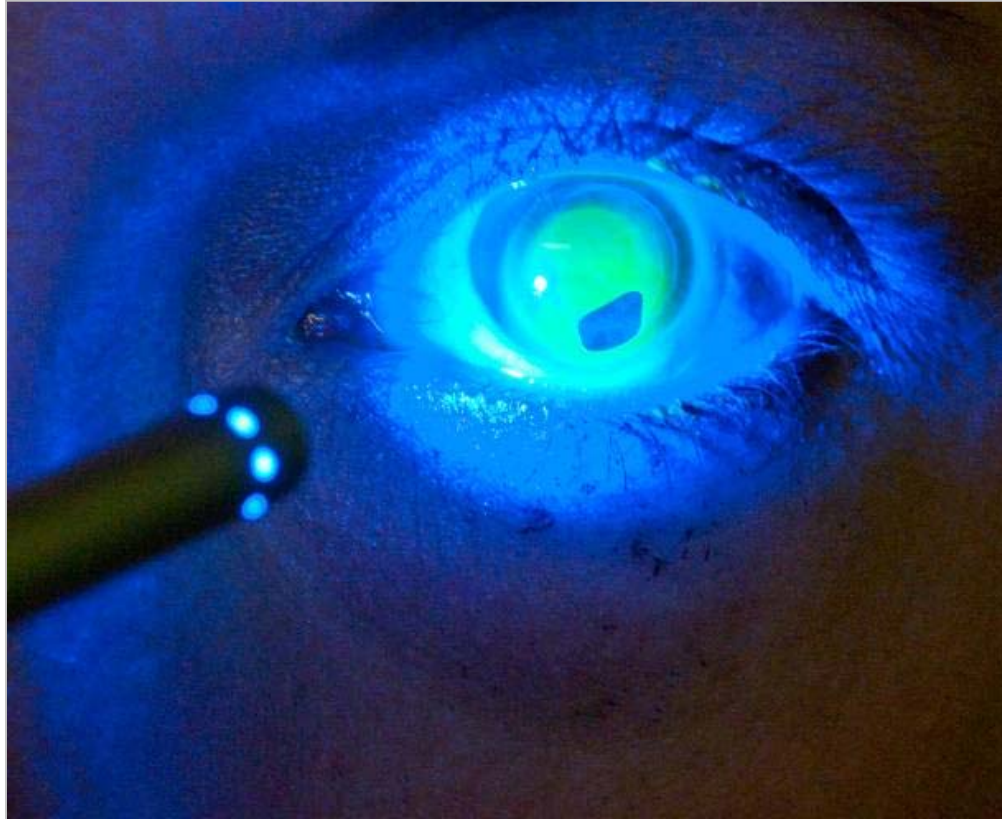
# Inserting the Diagnostic Lens

Start with the 250 $\mu$  Vault in the Medium skirt curve.

- Fill the bowl of the lens completely to the top with 1 drop of fluorescein and non-preserved saline.
- Have the patient lean forward and tuck their chin to chest. Nose should be perpendicular to the floor.
- Retract the upper and lower lids and gently place the lens on the cornea.

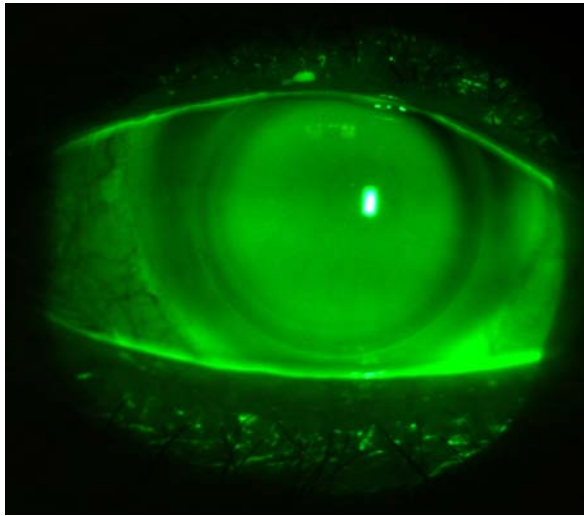


# Check for Bubbles After Insertion



- Check for bubbles under the lens with the blue pen light included in the diagnostic set
- Bubbles cannot be displaced by lens manipulation – remove and re-insert

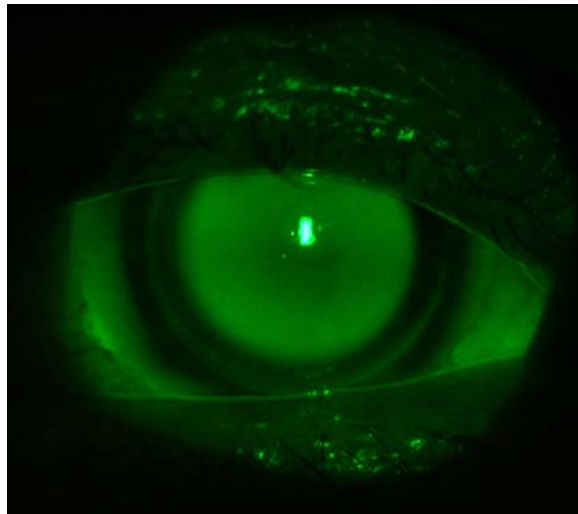
# Timing the Fluorescein Evaluation



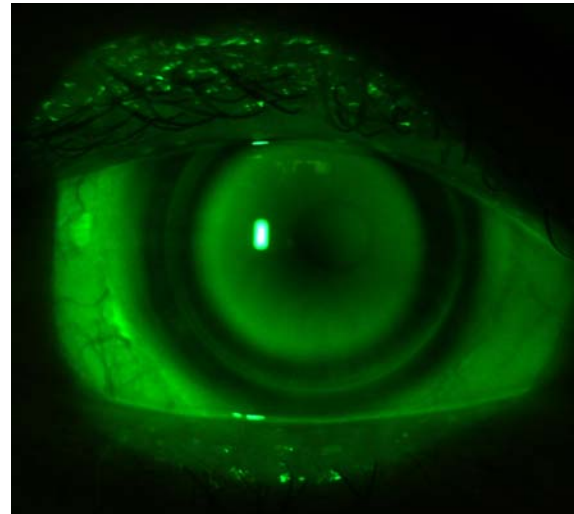
1 minute after insertion



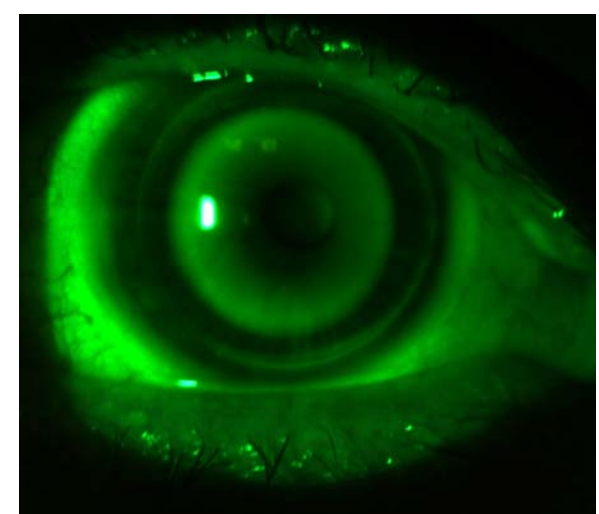
3 minutes after insertion



7 minutes after insertion



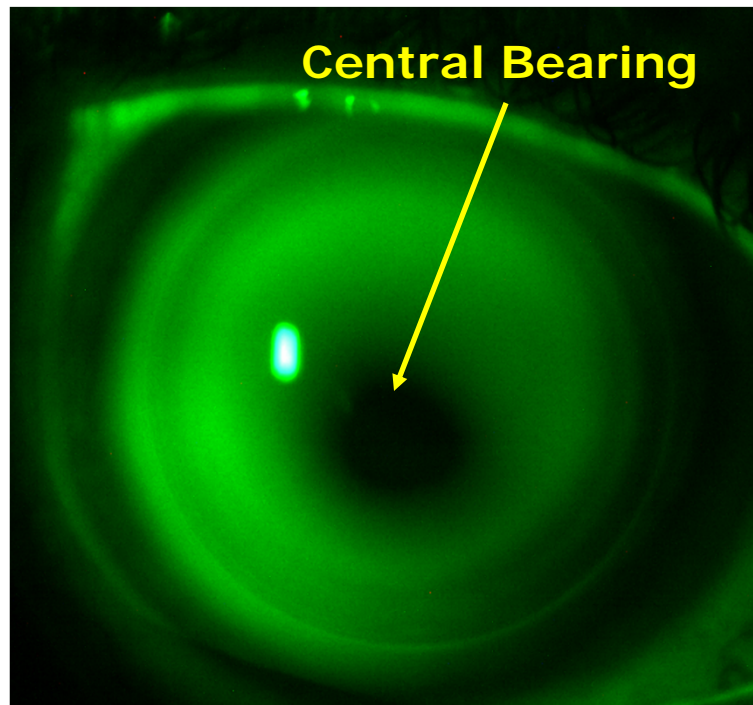
16 minutes after insertion



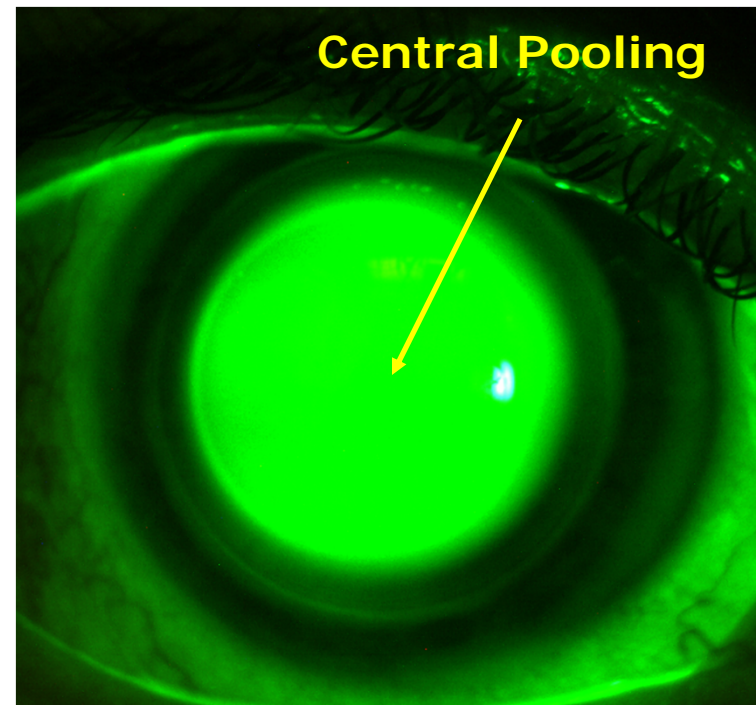
31 minutes after insertion

# Step 1: Determine Vault

Evaluate the 250 $\mu$  Vault in the Medium skirt curve.



**Vault too Shallow**

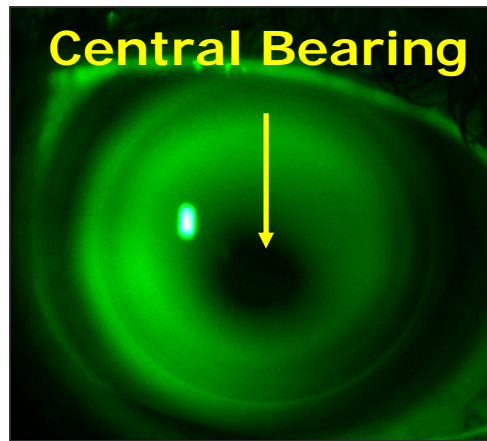


**Vault too Deep**

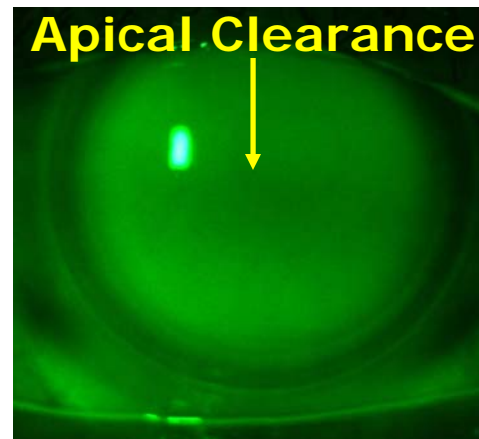


# Step 1: Determine Vault

## Initial Vault Too Shallow: Increase Vault in 100 $\mu$ Steps Until:

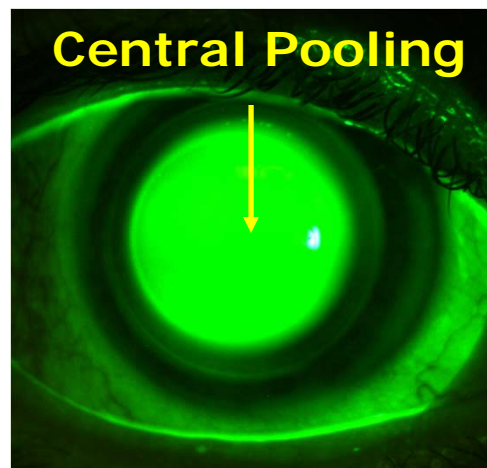


Becomes

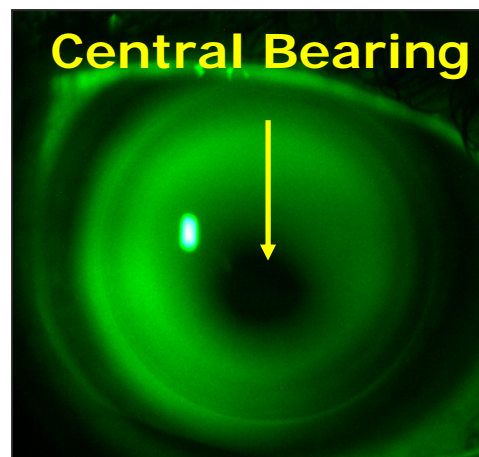


Reduce vault by 50 $\mu$  and re-evaluate for apical clearance.

## Initial Vault Too Deep: Decrease Vault in 100 $\mu$ Steps Until:



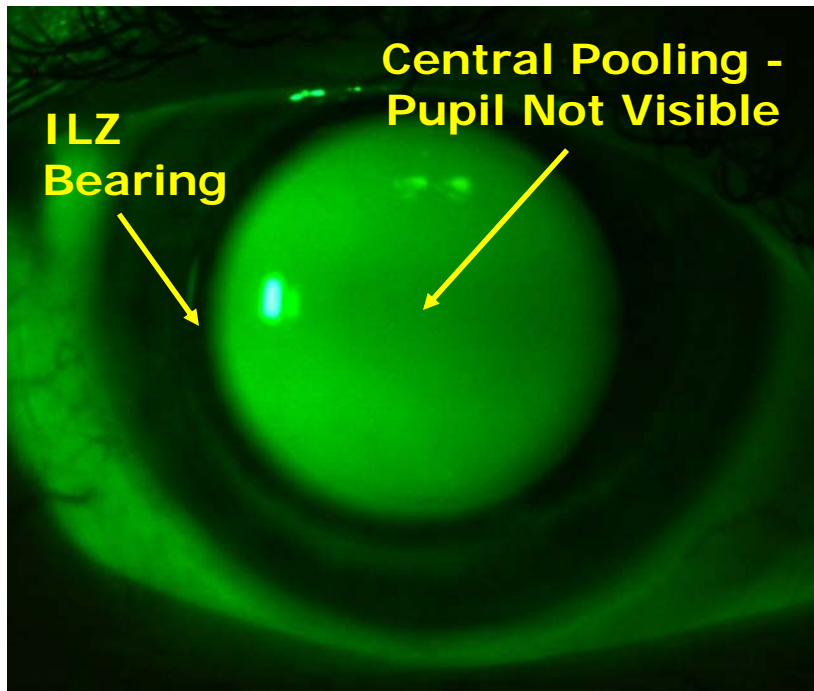
Becomes



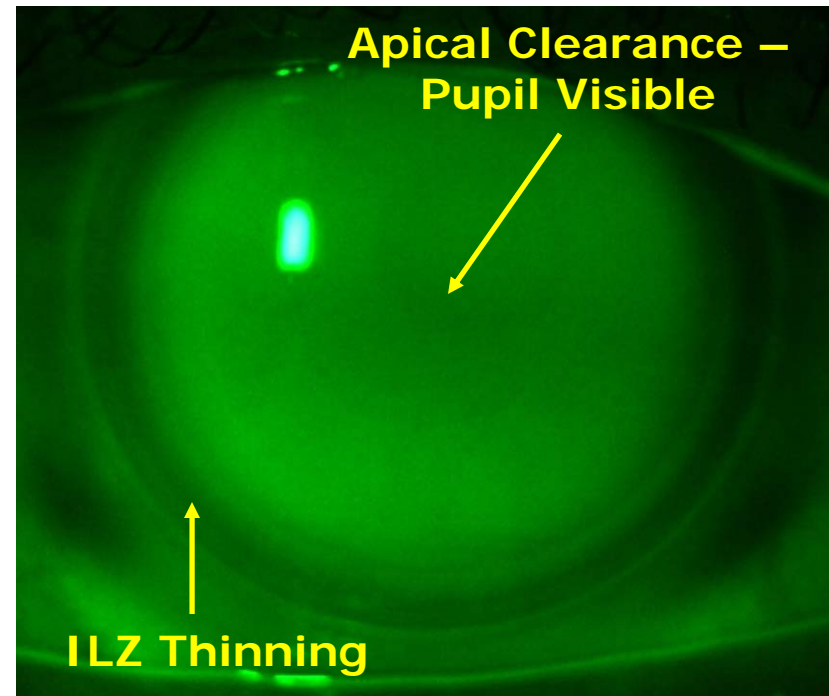
Increase the vault by 50 $\mu$  and re-evaluate for apical clearance.

# Avoiding Over-Vault

The most common source of failure with a ClearKone lens is over-vault



**Over-Vault**



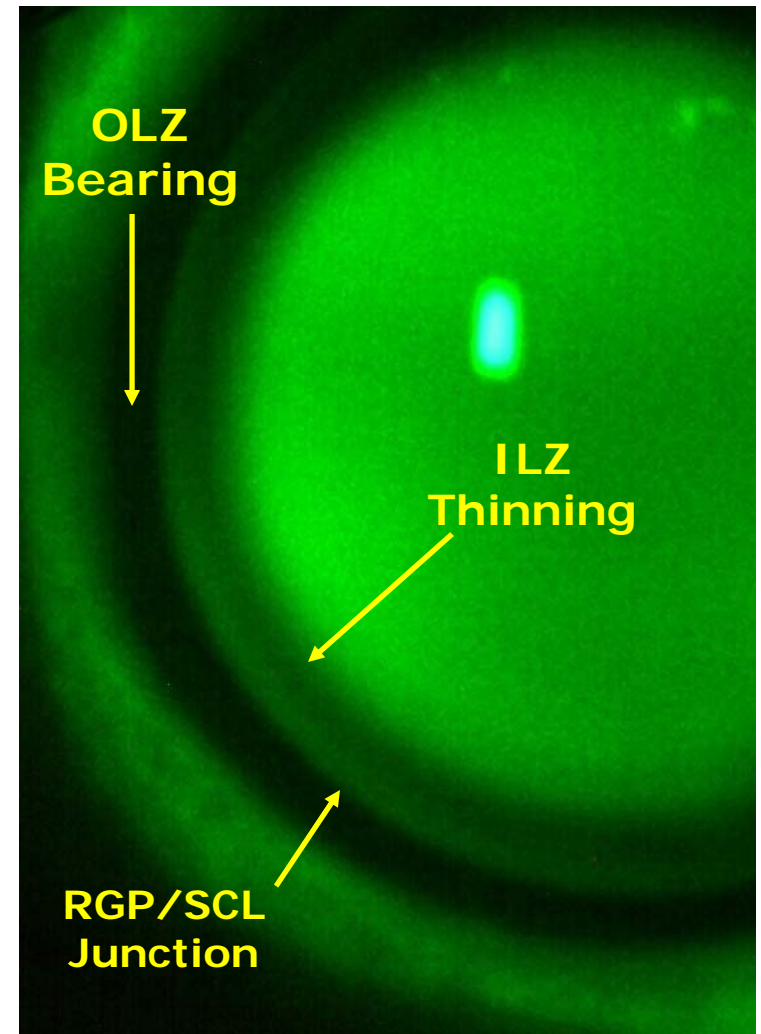
**Ideal Vault**

*Symptoms of Over-Vault: Discomfort and Reduced Wear Time Several Weeks Post-Dispense*

## Step 2: Determine Skirt Curvature

- Evaluate skirt only after proper vault is determined and is on eye
- Start with the Medium skirt
- GOAL: NaFL thinning in the ILZ and bearing in the OLZ.
- Lens will exhibit movement very similar to soft lens.

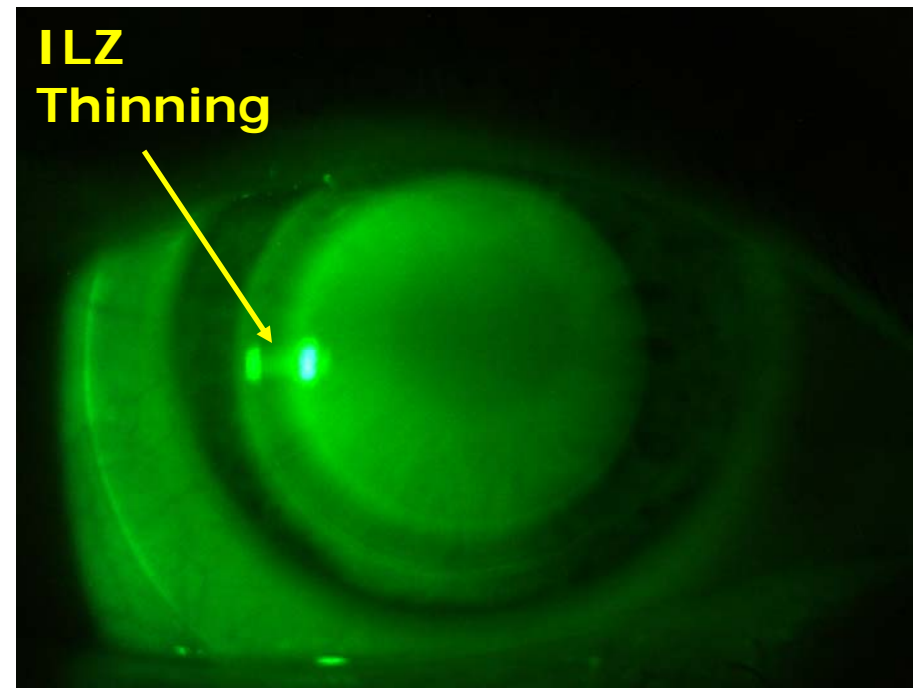
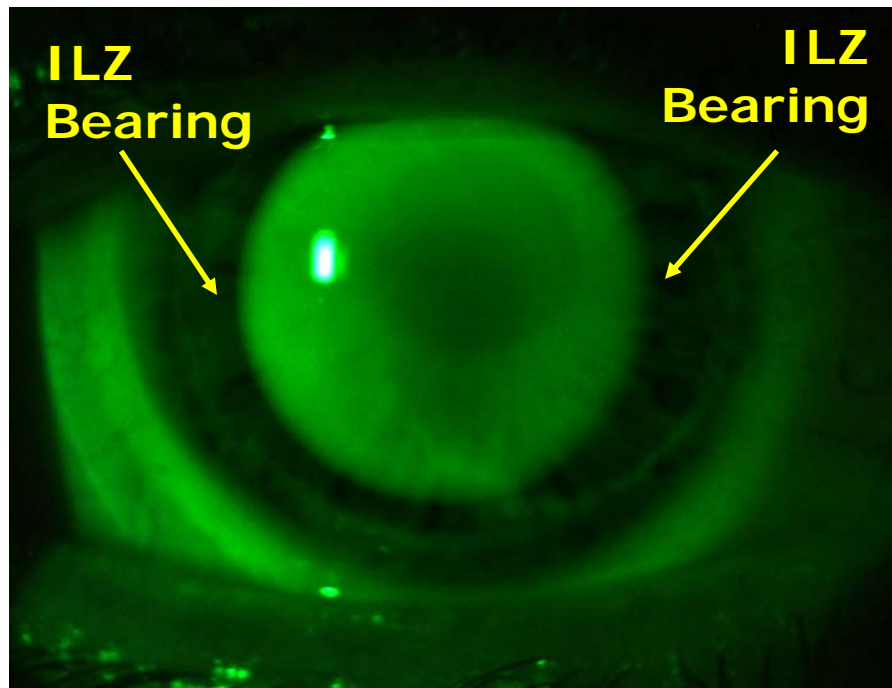
### Ideal Skirt Curve Fit



Patient comfort will greatly validate final fit

# Skirt Curve too Flat – Example 1

If bearing observed under ILZ – steepen the skirt curve



Medium Skirt

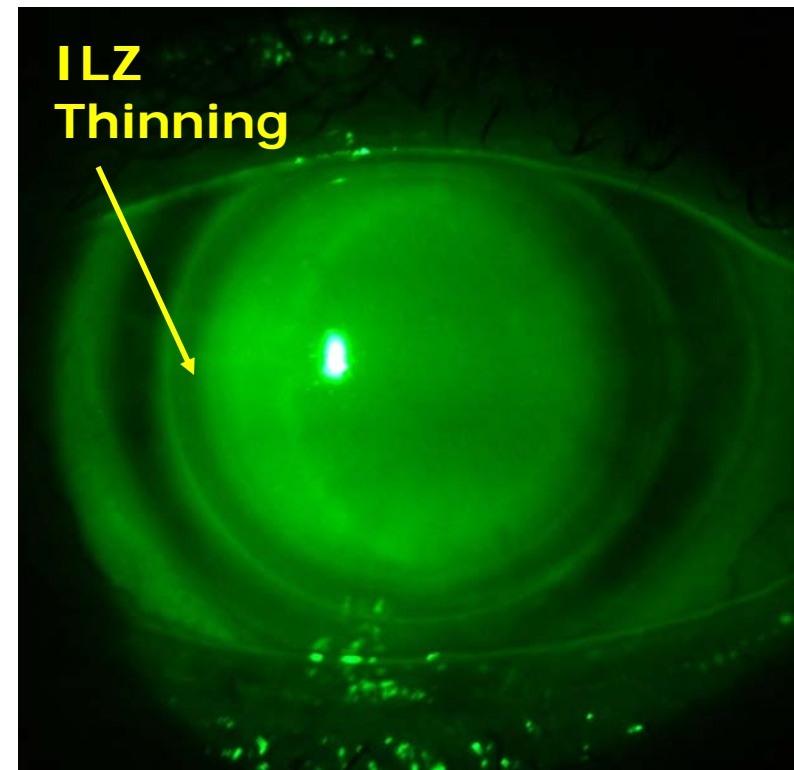
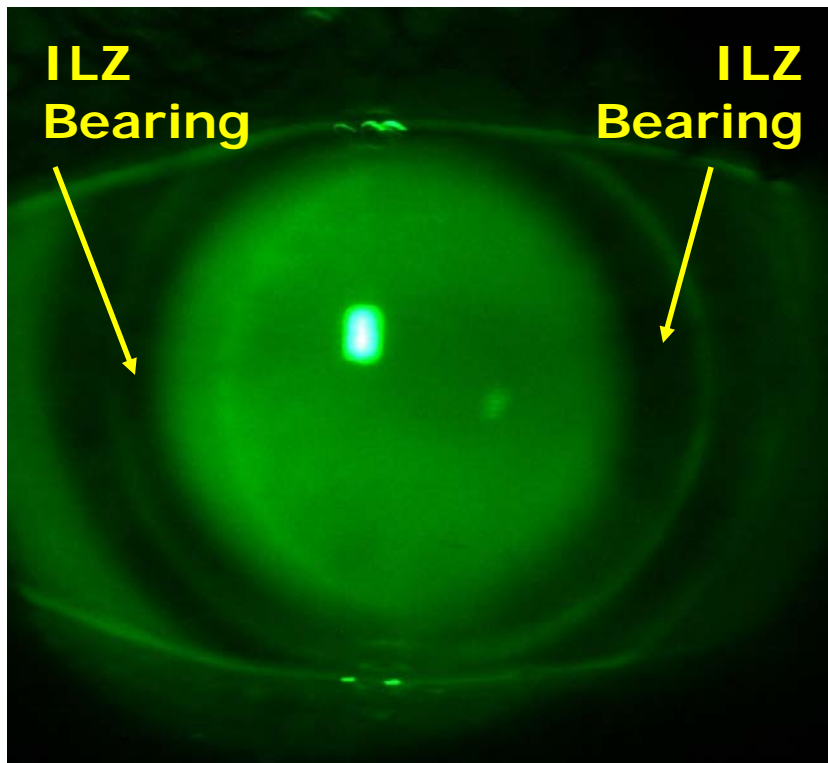


Steep Skirt

Switch To

# Skirt Curve too Flat – Example 2

If bearing observed under ILZ – steepen the skirt curve



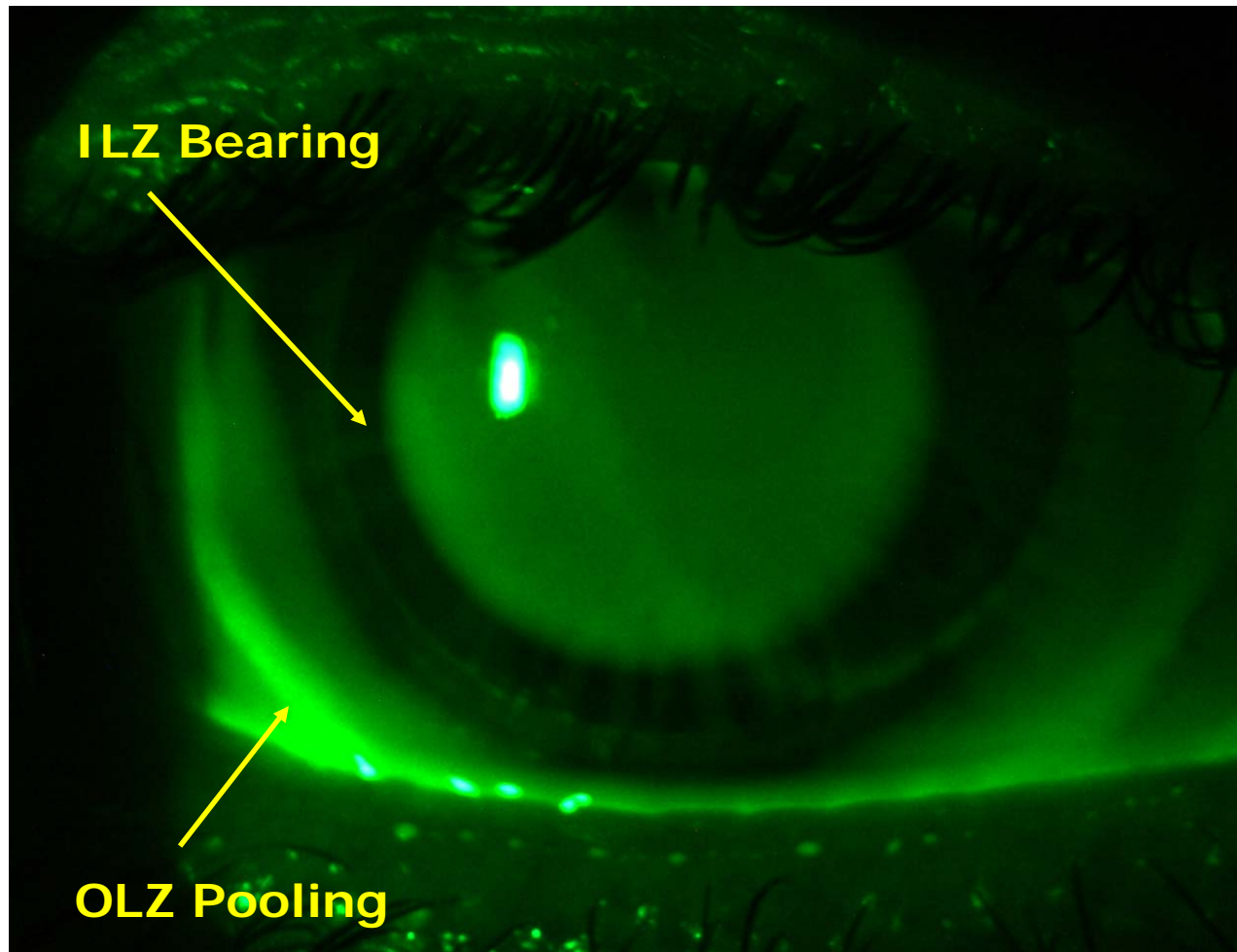
Medium Skirt



Steep Skirt

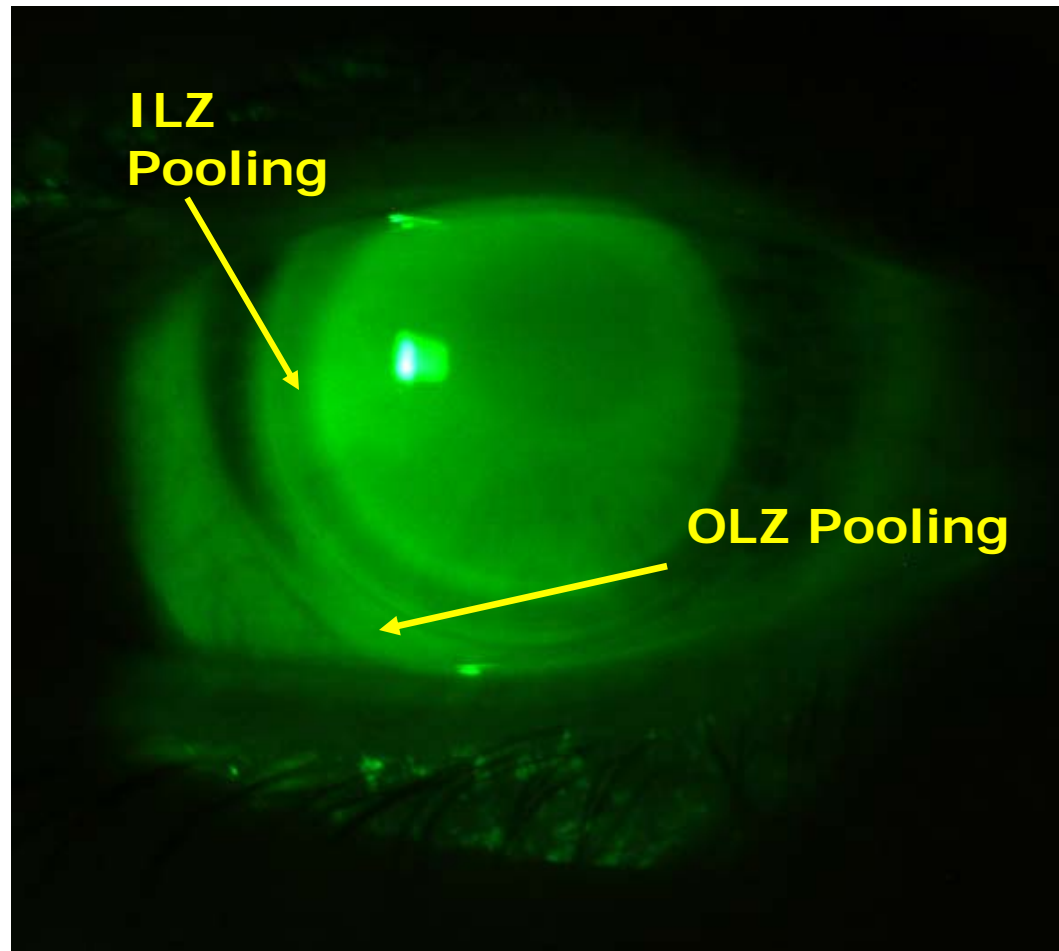
Switch To

# Skirt Curve too Flat – Example 3



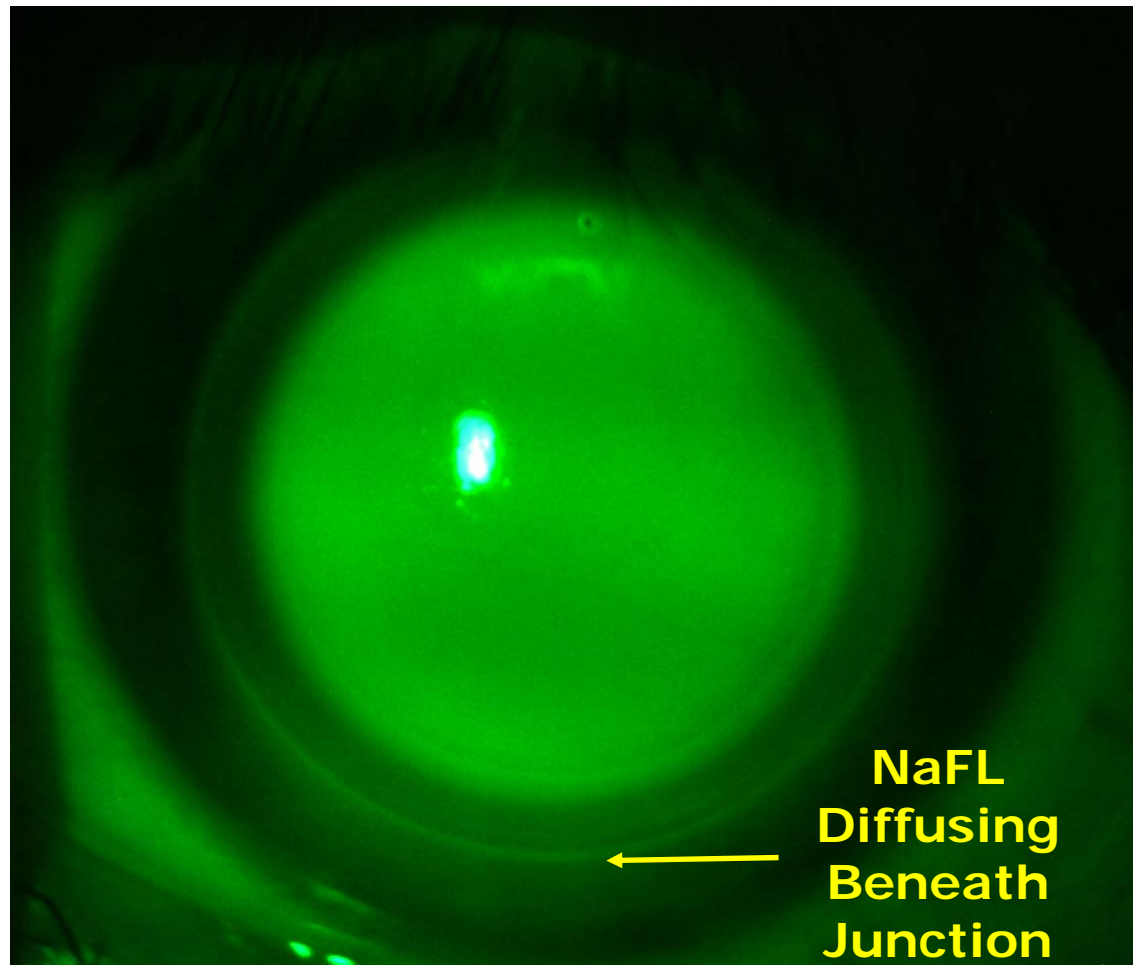
If pooling observed under the OLZ, and bearing is observed under ILZ – steepen the skirt

# Skirt Curve too Steep



If pooling observed under the ILZ – flatten the skirt curve

# Determining Proper Skirt Curvature



Patient comfort is optimized when NaFL pattern shows slight diffusing beneath the rigid/soft junction



## Step 3: Determine Final Lens Power

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- When an ideal NaFL pattern is achieved, over-refract to determine final lens power
- If the over-refraction is greater than 4.00D, adjust for vertex distance.
- Lenses in the fitting set vary in power from -1.00D to -14.50D sphere power depending on the vault depth selection.
  - A laminated card is provided in the Dx set indicating the power of each lens

# Corneal Change



- Goal of the fitting process for the *ClearKone* lens is to clear the cone
- If the previous lens was physically touching the cornea, it will “mold” the shape of the cornea - patients will likely have topographical changes once fit with *ClearKone*
- Fit looks deep enough on dispense and is comfortable, but as cornea changes fit will need to be adjusted
- Discomfort or reduced wear time at follow up indicates need to check for central bearing
- Typically only have to change vault and power
- Continued re-fitting will not be necessary – cornea will stabilize once it has returned to its natural shape
- For patients coming out of another lens, err on the side of deeper vault on original order – fit 100 $\mu$  over first bearing

# Where to start



- Fitting *ClearKone* is **different** than any other lens for irregular corneas – including *SynergEyes KC*
  - Commit to the learning curve
- After ~3-4 patient fits, the fitting process will go very quickly and be straightforward / predictable
  - Give yourself extra time initially
- Good patient candidates for first fits include:
  - Newly diagnosed patients
  - RGP patients wanting better comfort/acuity
  - Piggybacks wanting improvements
  - Failed *SynergEyes KC* patients

**Congratulations!**  
**You have now completed the ClearKone  
Basic Training presentation.**

*Your SynergEyes representative will  
contact you to discuss your options for  
obtaining a fitting set.*