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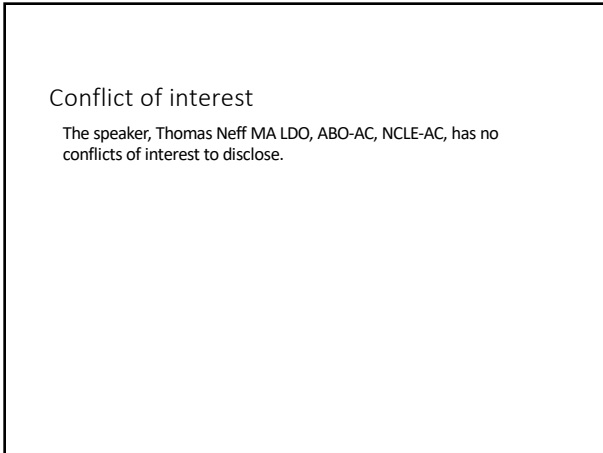
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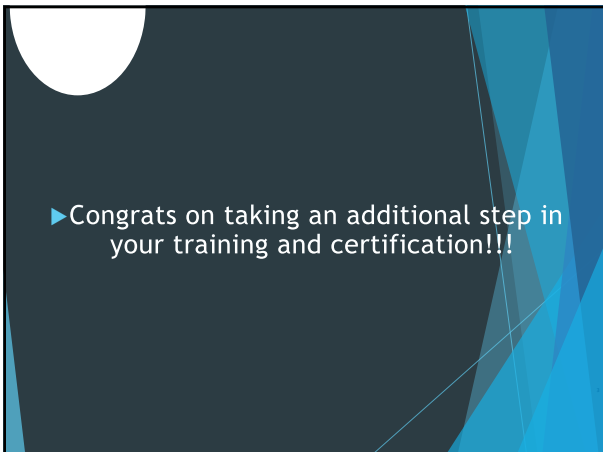
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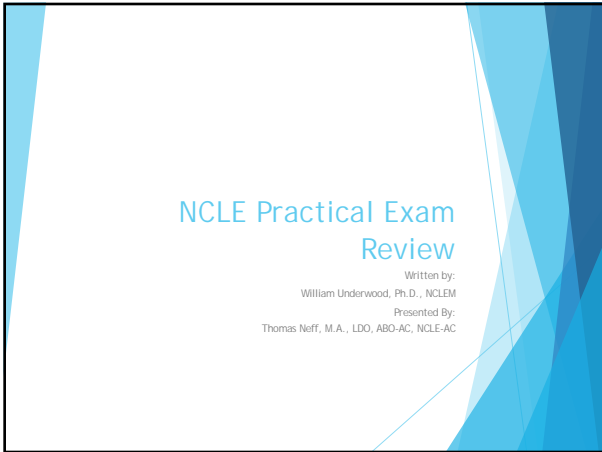
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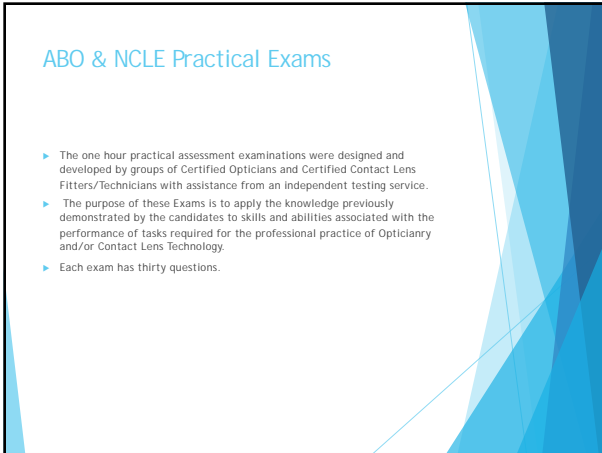
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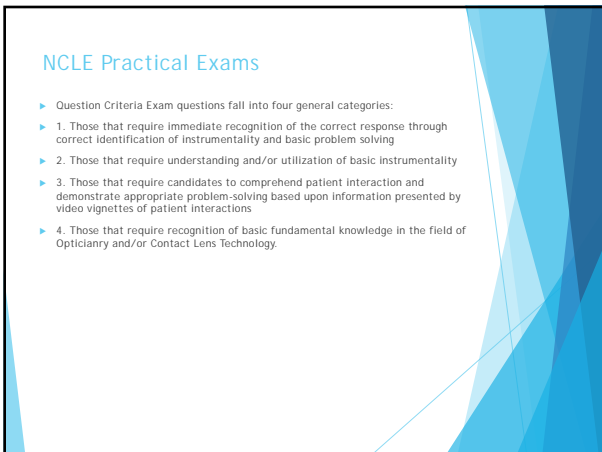
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**ABO & NCLE Practical Exams**

- ▶ ABO & NCLE provides a fully-interactive ABO & NCLE Tutorial and Practice Exam Question Area.
- ▶ You can learn about the types of virtual reality questions available on the ABO-NCLE Practical Examinations and how to utilize the Lens Meter, Slit Lamp, and many other on-line virtual instruments utilized on the ABO & NCLE Practical Examinations.
- ▶ [https://www.abo-ncle.org/ABO/Exam\\_Information/Practical\\_Exams/Practical\\_Exam\\_Tutorial/ABO/Practical\\_Exam/Practical\\_Exam\\_Tutorial.aspx?hkey=b53962d8-5427-4cf4-9cd7-2074c6c91d9c](https://www.abo-ncle.org/ABO/Exam_Information/Practical_Exams/Practical_Exam_Tutorial/ABO/Practical_Exam/Practical_Exam_Tutorial.aspx?hkey=b53962d8-5427-4cf4-9cd7-2074c6c91d9c)

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**ABO & NCLE Practical Exams**

- ▶ ABO & NCLE provides a Practical Slideshow to allow candidates to understand the functionality and type of questions for each item within the ABO and NCLE Practical Examinations.
- ▶ <https://www.slideshare.net/JamesMorris153/abo-ncle-practical-exam-slideshow-tutorial>

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**Exam Costs**

- ▶ Current cost for the ABO & NCLE Practical Exams is \$75.00 per exam or a total of \$150.00

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### NCLE Practical: Keratometry

#### Keratometry Practice

Determine the K Reading for this patient's right eye.

1. Set occluder
2. Focus eyepiece
3. Level keratometer with respect to outer canthus.
4. Align keratometer with center of cornea.
5. Focus the mires, and refine level and alignment as needed.
6. Find K reading, using axis scale and measuring drums.



Select the "Next" arrow to begin.

Back Next

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### NCLE Practical: Keratometry

#### Adjusting the Eyepiece



Rotating Grip

Horizontal Drum

Vertical Drum

Focus Knob

Top View

Transparent View

MENU

SCREEN 6/11

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### NCLE Practical: Keratometry

#### Practice Adjusting the Eyepiece

When the screen activates, go to the Transparent View and set the occluder.



Top View

Transparent View

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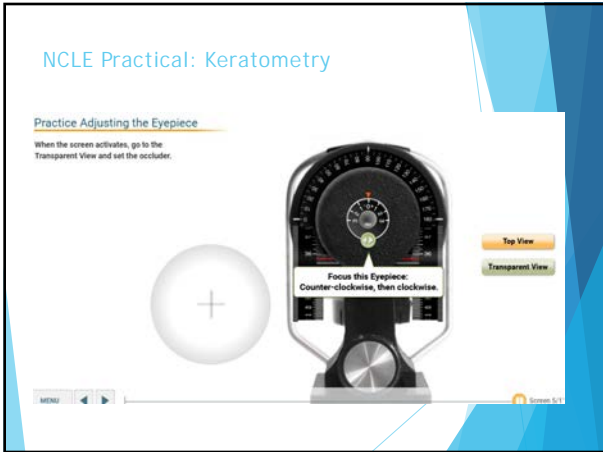
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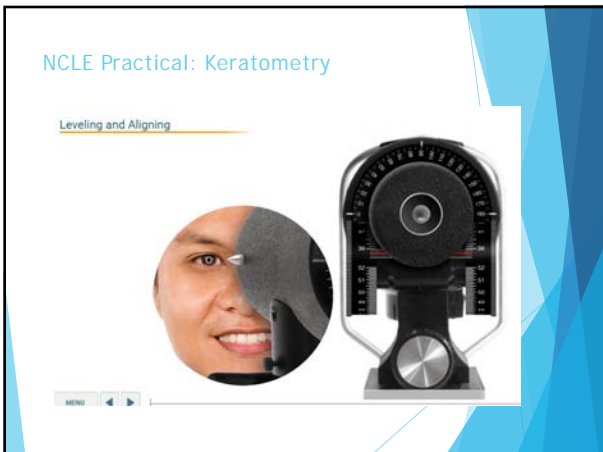
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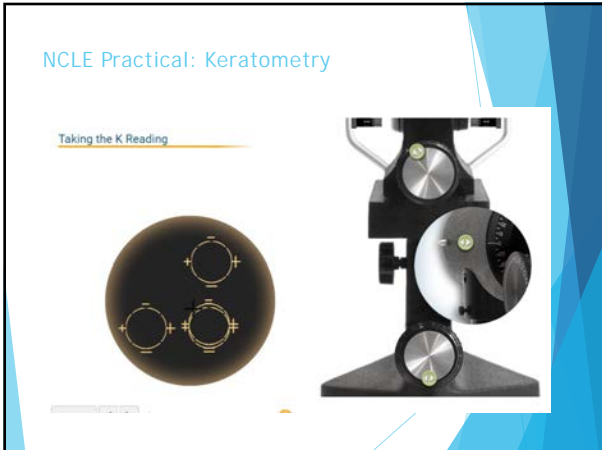
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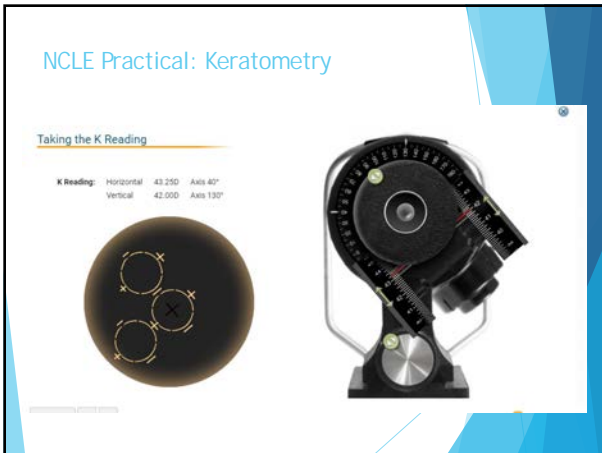
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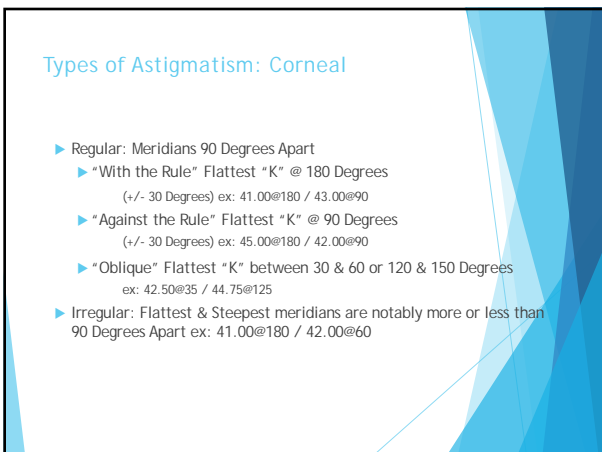
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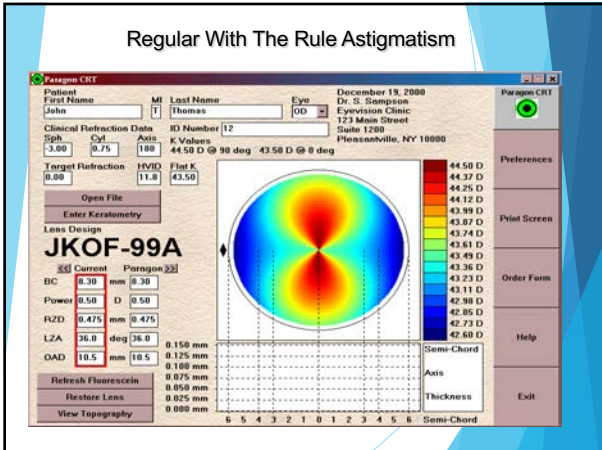
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### Regular With The Rule Astigmatism




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### Slit Lamp Operation




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### Slit Lamp Evaluation

- ▶ Diffuse: General Observations, Lens Evaluation
- ▶ Direct Focal:
  - ▶ Paralleliped: Edema, Vertical Striae, Opacities, Vascularization, Precorneal Film Debris, Abrasions, Staining, Endothelium Pigment Deposits, Foreign Bodies.
  - ▶ Optic Section: Layers of cornea, Thickness of cornea, Depth of abrasion or imbedded foreign body
- ▶ Retro: Microcysts, Neovascularization
- ▶ Specular Reflection: Endothelial Changes.
- ▶ Sclerotic Scatter: Edema, Opacities

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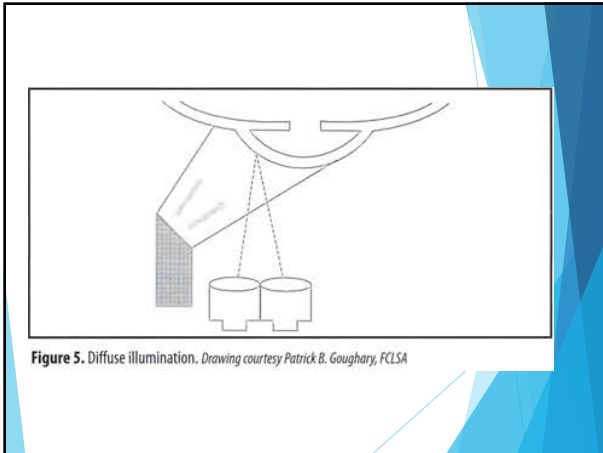
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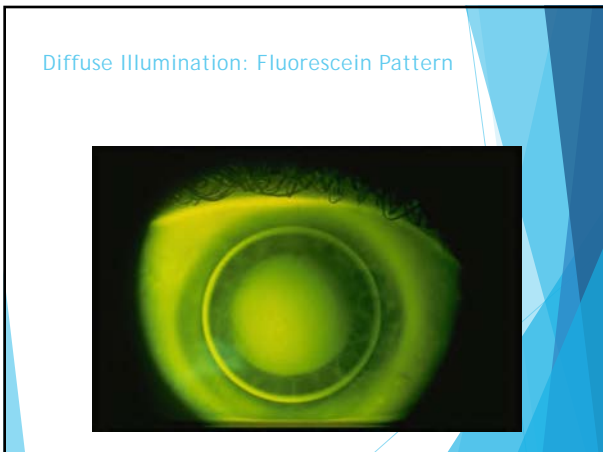
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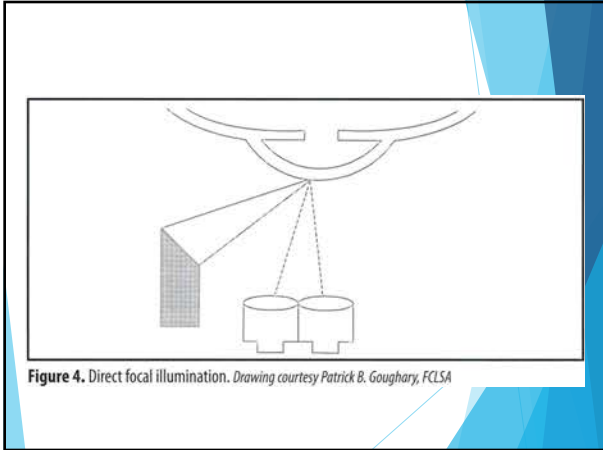


Figure 4. Direct focal illumination. Drawing courtesy Patrick B. Goughary, FCLSA

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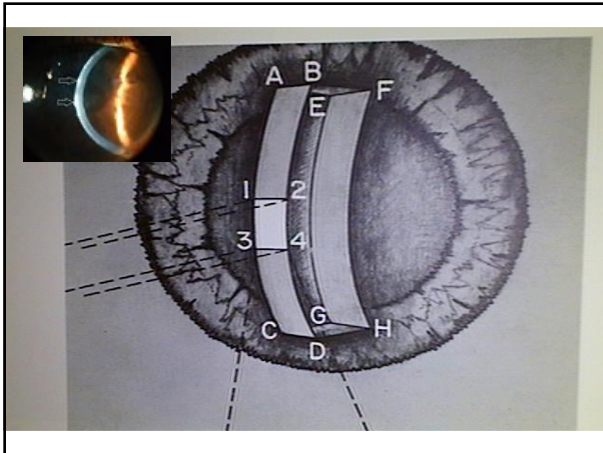
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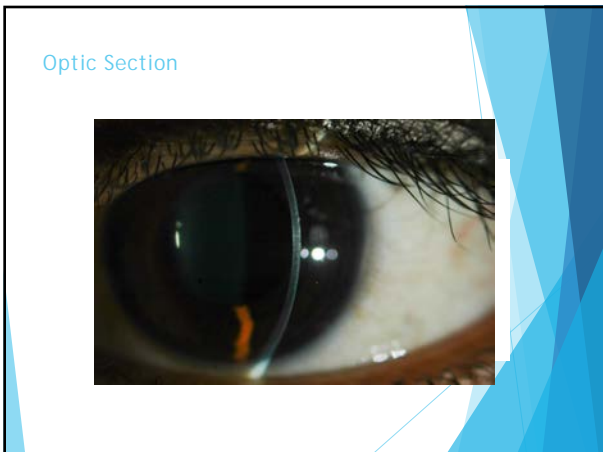
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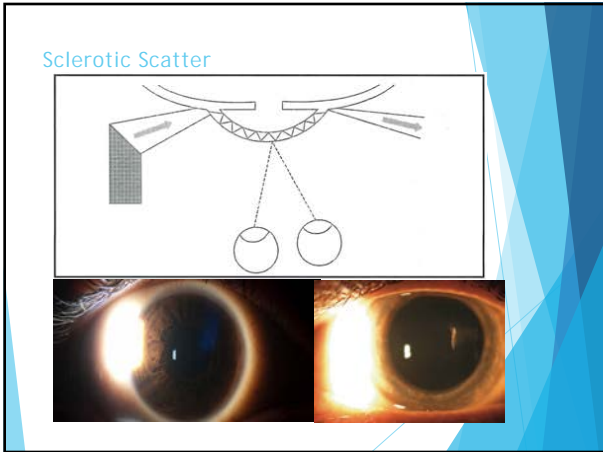
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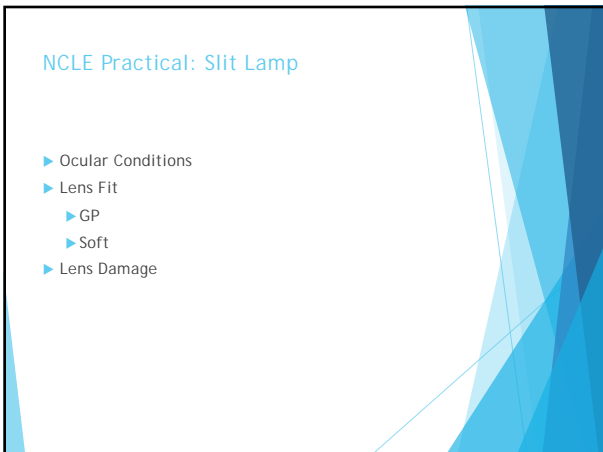
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Ocular Conditions: Lid Margins

- ▶ Blepharitis
- ▶ Plugged meibomian glands
- ▶ Trichiasis
- ▶ Lacrimal lake quantity and quality

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Ocular Conditions: Conjunctiva

- ▶ Palpebral:
  - ▶ Injection, Conjunctivitis, Concretions, Cysts, Papillae, Follicle
- ▶ Bulbar:
  - ▶ Pingueculas, Pterygium, Cysts, Dry or Pigmented Areas, Injection

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Ocular Conditions: Cornea

- ▶ Direct Focal:
  - ▶ Parallelepiped: Edema, Vertical Striae, Opacities, Vascularization, Precorneal Film Debris, Abrasions, Staining, Endothelium Pigment Deposits, Foreign Bodies.
  - ▶ Optic Section: Layers of cornea, Thickness of cornea, Depth of abrasion or imbedded foreign body
- ▶ Retro: Microcysts, Neovascularization
- ▶ Specular Reflection: Endothelial Changes.

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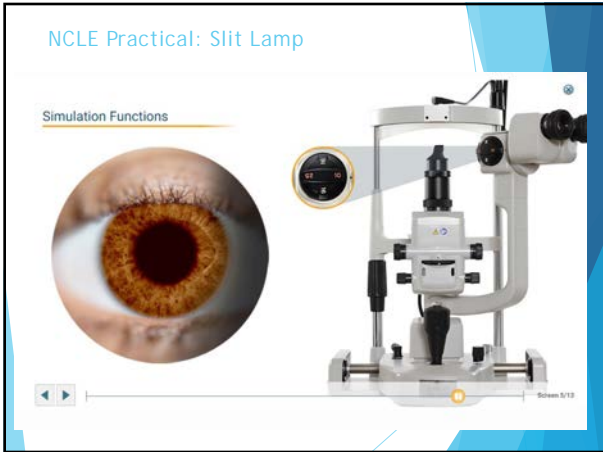
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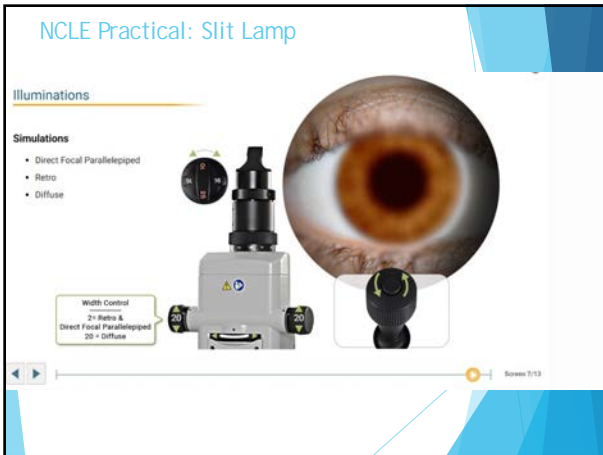
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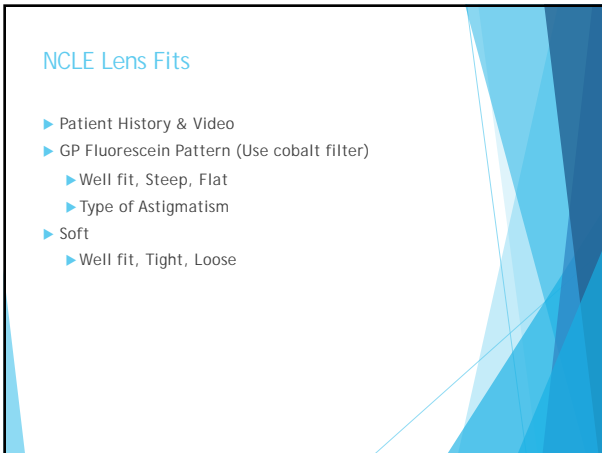
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### NCLE Soft Lens Fit

**Simulation**  
Determine whether the lens is well fit, too loose or too tight.



Select the description that best describes the fit of the lens you examined. Then submit your answer.

- Well fit
- Too loose
- Too tight

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### NCLE GP Fit, Type of Astigmatism

**Simulation**  
Assess the patient for the presence of astigmatism, and if it is present, identify the type of axis.



Select one of the following conditions, depending on what you observed in the slit lamp assessment. Then submit your answer.

- The eye has a spherical cornea.
- The eye has with-the-rule astigmatism.
- The eye has against-the-rule astigmatism.

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### NCLE: Lens Damage

- ▶ Deposits
- ▶ Damage

**Simulation**  
Determine whether Lens Deposits, Lens Damage or Lens Opacities are present.



Select one or more of the following conditions, depending on what you observed in the slit lamp. Then submit your answer(s).

- Lens deposits
- Lens damage
- Lens opacities
- No deposits, damage or opacities

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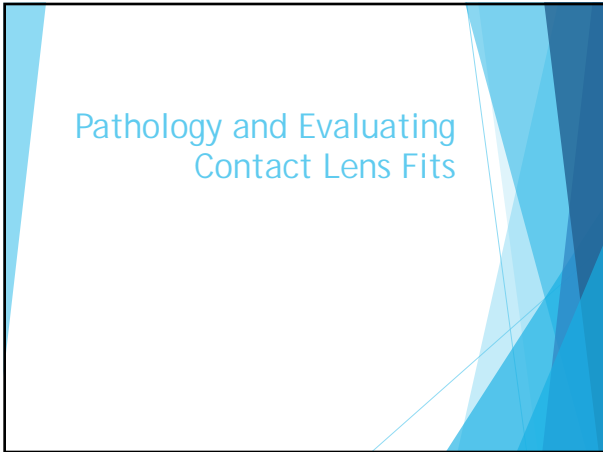
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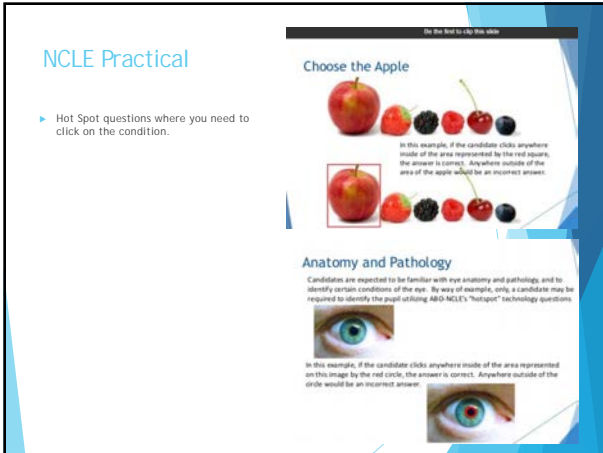
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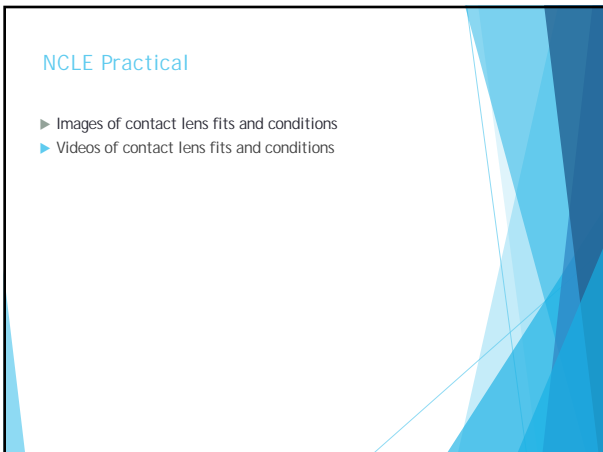
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GPLI.info Fitting & Problem Solving

- ▶ <http://www.gpli.info/gc-fitting-prob-solve/>

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Healthy Eye



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Pathology: Ocular Conditions

- ▶ Lids
- ▶ Conjunctiva
- ▶ Cornea



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Questions?

Thomas Neff MA, LDO, ABO-AC, NLCE-AC  
[tneff@hccfl.edu](mailto:tneff@hccfl.edu)

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