

# Consultant Educational Resource Guide GPLI Content Revised 02/19/26

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## **CUSTOMER SERVICE**

### **Frontline Customer Service**

- taking orders (phone, email, online) [Office Organization - GPLI](#)

### **Order Entry Process**

- Basic lens knowledge (saves time on call backs)
  - Understanding Contact Lens Parameters Narrated PP <https://gpli.info/essentials-for-staff/>
  - [Contact Lens Clinical Pocket Guide - GPLI](#)
  - CLSA Contact Lens Manual Vol 1, Ch 1
- K's, refraction, HVID, add power, pupil diameter, etc.
  - [Contact Lens Clinical Pocket Guide - GPLI](#)
  - <https://gplisymposium.info/s/Application-of-Corneal-Topography-in-Clinical-Practice.pdf>
- Parameter ranges, colors, DK
  - [GP Materials List - GPLI](#)
- When is a consultant needed
  - [Laboratory Consultant FAQ - GPLI](#)
- Pricing, warranty, shipping options and exchange policy  
[Best Business Practices - GPLI](#)
- Supplies
  - [GP Solutions List - GPLI](#)
  - [GP Accessories List - GPLI](#)

### **Lab Performance**

- QA department (ANSI standards, FDA)
  - [Staff Training - GP Lens Verification: The Lensometer \(gpli.info\)](#)
  - [Staff Training - GP Lens Verification: The Radiuscope \(gpli.info\)](#)
- Lens quality (Equipment, inspection, maintenance)
  - Lens Verification Narrated PP <https://gpli.info/essentials-for-staff/>
  - [Staff Training - GP Lens Verification: The Radiuscope \(gpli.info\)](#)
  - [Staff Training - GP Lens Verification: The Lensometer \(gpli.info\)](#)
- Turnaround time consistency [Best Business Practices - GPLI](#)
- Labeling, invoice and packaging [Best Business Practices - GPLI](#)
- Shipping options (expedited, mail to patient) [Best Business Practices - GPLI](#)

### **Other Customer Service Tools**

- Education [Online Curriculum for Educators - GPLI](#)
- Webinars [100+ Archived Webinars Will Hone Your Specialty Lens Skills - GPLI](#)
- In office [Office Organization - GPLI](#)
- Trade shows [GPLI Specialty Contact Lens Symposium - GPLI](#)
- School support [Links for Educators - GPLI](#)
- Clinical data [Pocket-Guide-2022-Update.pdf](#)
- Fitting guides
  - <https://gpli.info/clma-fitting-guide/>
- Resource guides

- Customer friendly policies (warranty, exchanges, billing)  
[Best Business Practices - GPLI](#)

### Practice Management

- Best Business Practices <https://gpli.info/best-practices/>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 14 Practice Management  
<https://clsa.info/Bookstore.aspx?cat=7>

## GENERAL KNOWLEDGE

### Anatomy

- **Ocular Anatomy Narrated PP** <https://gpli.info/essentials-for-staff/>
- **CLSA Online Course-CL Review Level 1**
- CLSA Contact Lens Manual Vol 1, Ch 2 <https://clsa.info/Bookstore.aspx?cat=7>
- Cornea
  - The Cornea Narrated PP <https://gpli.info/essentials-for-staff/>
    - The transparent part of the eye that covers the iris and the pupil
    - The cornea's main function is to refract, or bend, light.
    - The cornea is responsible for focusing most of the light that enters the eye.
- Limbus
  - Ocular Anatomy Narrated PP <https://gpli.info/essentials-for-staff/>
  - The Cornea Narrated PP <https://gpli.info/essentials-for-staff/>
    - The limbus forms the border between the transparent cornea and opaque sclera around the circumference of the cornea.
    - Contains the stem cells for the production of the all-important epithelium (outer layer) of the cornea.
- Sclera
  - Ocular Anatomy Narrated PP <https://gpli.info/essentials-for-staff/>
    - The white layer of the eye that covers most of the outside of the eye.
    - It is a strong tissue that helps maintain your eyeball's shape and protects it from injury.

### Refractive Errors

- **Refractive Errors Narrated PP** <https://gpli.info/essentials-for-staff/>
- **CLSA Online Course-CL Review Level 2** : <https://quantumoptical.com/clsa/examprep.aspx>
- Myopia (nearsighted)
  - Light focuses in front of the retina
  - Cornea is too steep or/and Eye is too long
  - Minus lenses correct/Thicker at the edge
  - Diverge light/ move focal point further away
- Hyperopia (farsighted)
  - Light focuses behind the retina
  - Cornea is too flat or/and Eye is too small
  - Plus lenses correct/Thicker at center

- Converge light/move focal point closer
- Astigmatism
  - Astigmatism Narrated PP <https://gpli.info/essentials-for-staff/>
  - Refractive Errors Narrated PP <https://gpli.info/essentials-for-staff/>
  - The Cornea Narrated PP <https://gpli.info/essentials-for-staff/>
    - Corneal
    - Regular Steepest and flattest curves are 90 degrees apart
    - Irregular Steepest and flattest curves are not 90 degrees apart
    - Internal
- Presbyopia
  - Refractive Errors Narrated PP <https://gpli.info/essentials-for-staff/>
- Aphakia
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 7 Pediatric CL fitting <https://clsa.info/Bookstore.aspx?cat=7>

## Ocular Measurements

- Slit lamp Examination
  - Slit lamp Exam Narrated PP <https://gpli.info/essentials-for-staff/>
  - CLSA Contact Lens Manual Vol 1, Ch 6 <https://clsa.info/Bookstore.aspx?cat=7>
- Corneal Diameter/ Horizontal Visible Iris Diameter (HVID)
  - <https://gplisymposium.info/s/Application-of-Corneal-Topography-in-Clinical-Practice.pdf>
    - Can be measured using a ruler or other manual measuring tool or with a corneal topographer.
    - Important for determining the proper diameter of a contact lens (
- Corneal Curvature
  - The Cornea Narrated PP <https://gpli.info/essentials-for-staff/>
  - Astigmatism Narrated PP <https://gpli.info/essentials-for-staff/>
  - Keratometry Narrated PP <https://gpli.info/essentials-for-staff/>
  - **CLSA Online Course-CL Review Level 1 and 3**  
<https://quantumoptical.com/clsa/examprep.aspx>
  - CLSA Contact Lens Manual Vol 1, Ch 5 Keratometry and Topography  
<https://clsa.info/Bookstore.aspx?cat=7>
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 13 Advanced Instrumentation and Tech  
<https://clsa.info/Bookstore.aspx?cat=7>
    - Often described as the “K” readings and is the curvature of the flattest and steepest meridians of the cornea - normally 180 degrees apart.
    - Can be notated in diopters (i.e. 45.00 D, etc.) or in millimeters (i.e. 7.45 mm, etc.)
    - Important for determining the proper back surface curvature of a contact lens
- Corneal Topography
  - Topography Narrated PP <https://gpli.info/essentials-for-staff/>
  - <https://gplisymposium.info/s/Application-of-Corneal-Topography-in-Clinical-Practice.pdf>
  - <https://vimeo.com/585053732/e9c38e9129>
  - **CLSA Online Course-CL Review Level 1 and 3**  
<https://quantumoptical.com/clsa/examprep.aspx>

- CLSA Contact Lens Manual Vol 1, Ch 5 Keratometry and Topography  
<https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 11 Refractive Surgical Procedures  
<https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 13 Advanced Instrumentation and Tech  
<https://clsa.info/Bookstore.aspx?cat=7>
  - The precise measurement of all or most of the surface of the cornea - often depicted as a color map indicating the curvature and elevation of the cornea at thousands of individual points.
  - Extremely useful for fitting all contact lenses precisely and particularly useful for patients that have irregular or diseased corneas.
- Scleral Profilometry
  - <https://gpli.info/webinar-2022-04/>
    - The measurement of the curvature and overall surface of the sclera surrounding the cornea - similar to corneal topography but of the sclera.
    - Helpful in determining the proper fit of a scleral contact lens (a large diameter rigid lens that extends out onto the sclera).

## **LENS TYPES**

- <https://gpli.info/gr-case-toc/>
- Materials, Modalities, & Designs Narrated PP <https://gpli.info/essentials-for-staff/>
- **CLSA Online Course-CL Review Level 2:**  
<https://quantumoptical.com/clsa/examprep.aspx><https://quantumoptical.com/clsa/examprep.aspx>

### **Soft**

- Soft Lens Webinar Archive
  - <https://gpli.info/soft-specialty-lenses/>
- Soft Contact Lenses and Soft Toric Fitting Presentations
  - <https://gpli.info/essentials-for-staff/>
- Advisor Article: "Custom Soft Contact Lenses: When, Why, & How to Achieve the Best Fit"
  - <https://gpli.info/the-advisor-jun2025-1/>
- Advisor Article: "Prosthetic Soft Contact Lenses: Clinical Applications and Ordering Essentials"
  - <https://gpli.info/the-advisor-jun2025-2/>
- Advisor Article: "Pediatric Cases: Soft Specialty Lenses for Very Special Patients"
  - <https://gpli.info/the-advisor-jun2025-3/>
- Advisor Article: "Custom Soft Lenses: What's Unique About Them?"
  - <https://gpli.info/the-advisor-jun2025-4/>
- Advisor Article: "Specialty Soft Lens Challenges"
  - <https://gpli.info/the-advisor-jun2025-5/>

### **Corneal GP**

- <https://gpli.info/spherical-gp-contact-lenses/>
- <https://gpli.info/click-n-fit/>
- Corneal GP Fitting Narrated PP <https://gpli.info/essentials-for-staff/>
- Sphere

- <https://gpli.info/gp-management-01/>
- Aspheric
  - <https://gpli.info/gp-management-01/>
  - CLSA Contact Lens Manual Vol 1, Ch 11 Aspheric CLs  
<https://clsa.info/Bookstore.aspx?cat=7>
- toric/BT/FT
  - Contact Lens Materials, Modalities and Designs Narrated PP <https://gpli.info/essentials-for-staff/>
  - <https://gpli.info/gp-management-01/>
  - <https://gpli.info/mandell-moore-bitoric-calculator/>
  - [GPLI Toric and Spherical Lens Calculator - GPLI](#)
- multifocal
  - Contact Lens Materials, Modalities and Designs Narrated PP <https://gpli.info/essentials-for-staff/>
  - <https://gpli.info/gp-management-01/>
- ortho-k
  - <https://gpli.info/corneal-reshaping/>
  - <https://gpli.info/webinar-2023-04b>
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 8 Orthokeratology  
<https://clsa.info/Bookstore.aspx?cat=7>
- KCN/PKP/Irregular cornea
  - <https://gpli.info/gp-management-01/>

#### Scleral

- Scleral Lenses Narrated PP <https://gpli.info/essentials-for-staff/>
- <https://gpli.info/scleral-lenses/>

#### Hybrid

- [The Added Value of Hybrids to You and Your Patients](#)
- CLSA Advanced Contact Lens Manual Vol 2, Ch 4 Specialty Hybrid Lenses  
<https://clsa.info/Bookstore.aspx?cat=7>

### LENS PARAMETERS

- Lens Parameters Narrated PP <https://gpli.info/essentials-for-staff/>
- Lens Verification & Modification Narrated PP <https://gpli.info/essentials-for-staff/>
- CLSA Online Course-CL Review Level 3 <https://quantumoptical.com/clsa/examprep.aspx>
- CLSA Contact Lens Manual Vol 1, Ch 9 <https://clsa.info/Bookstore.aspx?cat=7>
  - **Base Curve**
  - **Diameter**
  - **Sagittal Depth**
  - **Lens Power**
  - **Optic Zone**
  - **Intermediate Curves/Peripheral Curve**
  - **Lenticular Flange/Edge**
  - **Center Thickness**

- Prism/Truncation/Fenestration

## INITIAL LENS FIT/DESIGN

- Candidate Selection and Follow-up Narrated PP <https://gpli.info/essentials-for-staff/>
- CLSA Online Course-CL Review Level 3 and 4  
<https://quantumoptical.com/clsa/examprep.aspx>
- CLSA Contact Lens Manual Vol 1, Ch 3 Optics and CLs <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Contact Lens Manual Vol 1, Ch 4 Indications and contraindications  
<https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 1 Impact of Systemic and Anatomical Disorders  
<https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 2 Exam and Eval of Ocular Surface Prior to CLs  
<https://clsa.info/Bookstore.aspx?cat=7>

## Specialty Soft

- **Soft Contact Lenses** Materials, Modalities, & Designs Narrated PP <https://gpli.info/essentials-for-staff/>
- Soft Toric Fitting Materials, Modalities, & Designs Narrated PP <https://gpli.info/essentials-for-staff/>
- CLSA Contact Lens Manual Vol 1, Ch 8 Soft lenses 101 <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Contact Lens Manual Vol 1, Ch 15 Extended Wear CLs  
<https://clsa.info/Bookstore.aspx?cat=7>
- Advisor Article: “Specialty Soft Lens Fitting” (on a highly toric cornea)
  - <https://gpli.info/the-advisor-dec2025-5/>
- Advisor Article: “Custom Soft Contact Lenses: When, Why, & How to Achieve the Best Fit”
  - <https://gpli.info/the-advisor-jun2025-1/>
- Advisor Article: “Prosthetic Soft Contact Lenses: Clinical Applications and Ordering Essentials”
  - <https://gpli.info/the-advisor-jun2025-2/>
- Advisor Article: “Custom Soft Lenses: What’s Unique About Them?”
  - <https://gpli.info/the-advisor-jun2025-4/>
- Conventional Indications
  - <https://gpli.info/soft-specialty-lenses/>
  - <https://gpli.info/fitting-guide/>
  - <https://gpli.info/webinar-2022-10/>
  - <https://gpli.info/webinar-2021-09/>
    - High ametropia
    - Corneal diameter
    - Decentered multifocal optics
    - Previous failure with commodity lenses
- Medical Indications
  - <https://gpli.info/soft-specialty-lenses/>
  - <https://gpli.info/webinar-2022-10/>

- <https://gpli.info/webinar-2021-09/>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 1 Impact of Systemic and Anatomic Disorders <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 3 Specialty and Custom Soft for Reg and Irreg Cornea <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 6 Therapeutic CL uses <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 11 Refractive Surgical Procedures <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 12 Post Surgical Fitting <https://clsa.info/Bookstore.aspx?cat=7>
  - Irregular corneal astigmatism
  - Oblate topography
  - Prosthetic
  - Rigid lens intolerance

## Corneal GP

- Spherical Corneal GPs
  - Corneal GP Fitting Narrated PP <https://gpli.info/essentials-for-staff/>
  - [Spherical GP Lens Tools and Resources - GPLI](#)
  - [Webinar: Basics of Spherical Corneal GP Lens Design, Fitting, and Evaluation - GPLI](#)
  - CLSA Contact Lens Manual Vol 1, Ch 7 <https://clsa.info/Bookstore.aspx?cat=7>
- Toric Corneal GPs
  - <https://gpli.info/webinar-2025-09b/> Fitting the Astigmatic Patient – Matt Lampa Webinar
  - Fitting GP Toric Lenses - Tom Quinn <https://vimeo.com/261497517>
  - Advisor Article: Corneal GP Lens Fitting (on Highly Toric Cornea), <https://gpli.info/the-advisor-dec2025-2/>
  - [GPLI Toric and Spherical Lens Calculator - GPLI](#)
  - <https://gpli.info/newman-gp-toric-guide/>
  - <https://gpli.info/webinar-2022-06/> Ed Bennett Webinar
  - Need for toric <https://gpli.info/faq-01-toric/> <https://gpli.info/faq-02-toric/>
    - Front toric
    - Back toric
    - Bitoric
- Multifocal
  - Contact Lens Materials, Modalities and Designs Narrated PP <https://gpli.info/essentials-for-staff/>
  - [Presbyopia / Multifocal Tools and Resources - GPLI](#)
  - [Webinar: Specialty GP Lens Fitting Tools and Techniques - GPLI](#)
  - CLSA Contact Lens Manual Vol 1, Ch 16 Presbyopia <https://clsa.info/Bookstore.aspx?cat=7>
    - Types
      - Concentric
      - Lined
      - Progressive

- Needs
  - Lid position/lid anatomy
- Ortho k
  - [Corneal Reshaping Tools and Resources - GPLI](#)
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 8 Orthokeratology
    - Myopia
    - Design
    - Myopia management
- KCN/Irregular
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 1 Impact of Systemic and Anatomic Disorders <https://clsa.info/Bookstore.aspx?cat=7>
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 9 Fitting Post-Penetrating Keratoplasty <https://clsa.info/Bookstore.aspx?cat=7>
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 10 CLs and Irregular Astigmatism <https://clsa.info/Bookstore.aspx?cat=7>
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 11 Refractive Surgical Procedures <https://clsa.info/Bookstore.aspx?cat=7>
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 12 Post Surgical Fitting <https://clsa.info/Bookstore.aspx?cat=7>
  - [Keratoconus / Post-Surgical Tools and Resources - GPLI](#)
    - Types
    - Topography
    - Designs

### Scleral Lenses

- Scleral Lenses Narrated PP <https://gpli.info/essentials-for-staff/>
- [Scleral Lens Tools and Resources - GPLI](#)
- CLSA Advanced Contact Lens Manual Vol 2, Ch 5 Fitting Scleral Lenses <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 11 Refractive Surgical Procedures <https://clsa.info/Bookstore.aspx?cat=7>
- CLSA Advanced Contact Lens Manual Vol 2, Ch 12 Post Surgical Fitting <https://clsa.info/Bookstore.aspx?cat=7>
  - Need
  - Designs

### TROUBLESHOOTING

- Candidate Selection & Follow-up Narrated PP <https://gpli.info/essentials-for-staff/>
- CLSA Contact Lens Manual Vol 1, Ch 14 <https://clsa.info/Bookstore.aspx?cat=7>

### Specialty Soft Lenses

- Slit Lamp Exam Narrated PP <https://gpli.info/essentials-for-staff/>)
- Custom Soft Lens Update, October 2022 (<https://gpli.info/webinar-2022-10/>)

- Managing Ocular Complications from Custom Contact Lens Wear, May 2020 (<https://gpli.info/webinar-2020-05/>)
- Soft and Hybrid Contact Lenses for the Irregular Cornea, April 2023 (<https://gpli.info/the-advisor-apr2023-4/>)
- GPLI Pocket Fitting Guide (<https://gpli.info/fitting-guide/>)
- Advisor Article: “Specialty Soft Lens Challenges”
  - <https://gpli.info/the-advisor-jun2025-5/>

### Comfort Issues ([Spherical GP Lenses - FAQ 1 - GPLI](#))

- Comfort Upon Lens Insertion
  - Lens Handling Narrated PP <https://gpli.info/essentials-for-staff/>
- Solution Issues
  - Advisor Article: “Lens Care Concerns with Lens Discomfort”
    - <https://gpli.info/the-advisor-feb2026-5/>
  - Lens Care Narrated PP <https://gpli.info/essentials-for-staff/>
    - Preservative sensitivity Usually acquired over a period of months or more/More common with generic solutions compared to brand name solutions
    - Incomplete neutralization of hydrogen peroxide solution/Recommend replacement of their case every time they buy a new bottle of solution
- Lens damage/defects
  - Lens Verification & Modification Narrated PP <https://gpli.info/essentials-for-staff/>
    - Torn lens
    - Deposits on lenses
- Prism Ballast
  - Inferior portion of a toric lens is the thickest section of that lens and therefore more noticeable to patients
  - Easier to notice if the patient is wearing a toric lens in one eye only
  - Can be managed by reducing the amount of prism ballast or switching to a different lens design
  - Must be approached with caution, reducing prism ballast may cause the lens rotation to be unstable
- Lens Debris
  - Can come from anything the patient has touched prior to lens insertion
  - Hairs, towel fibers, specks of dirt, etc.
  - Education on hand washing prior to handling lenses is crucial
  - Removing lens and cleaning it often fixes the problem
- Comfort after a period of lens wear
  - Dryness
    - CLSA Advanced Contact Lens Manual Vol 2, Ch 1 Impact of Systemic and Anatomic Disorders <https://clsa.info/Bookstore.aspx?cat=7>
    - CLSA Advanced Contact Lens Manual Vol 2, Ch 2 Exam and Eval of Ocular Surface Prior to CLs <https://clsa.info/Bookstore.aspx?cat=7>
      - Artificial tear use
      - Dry eye workup may be necessary if artificial tears do not improve symptoms
  - Deposits
    - Typically due to improper hygiene

- Could also be something on the patient's hands when handling the lenses
  - Be sure to ask about cosmetics, soaps, lotions, etc.
  - Recommend "Contact Lens Friendly Cosmetics" page in the back of Tyler's Quarterly
- Non-Contact Lens Related Causes for Discomfort
  - Advisor Article: "Managing Contact Lens Discomfort: Consider Vision"
    - <https://gpli.info/the-advisor-feb2026-1/>
  - Advisor Article: "Dry Eye- When Contacts are NOT the Problem"
    - <https://gpli.info/the-advisor-feb2026-2/>
  - Advisor Article: "Allergies Can Complicate Contact Lens Tolerance"
    - <https://gpli.info/the-advisor-feb2026-3/>
  - Advisor Article: "Taking Another Look: Underlying Corneal Diseases Masquerading as Contact Lens Issues"
    - <https://gpli.info/the-advisor-feb2026-4/>
- Tight Lens
  - Will show compression of conjunctiva around the edge of the lens
  - Lens will have minimal to no movement on blink or when lens is manipulated
  - Caused by the lens having excessive sagittal depth
  - Lens base curve must be flattened or overall diameter must be reduced
- Loose Lens
  - Will show excessive movement on blink
  - Caused by the lens having too little sagittal depth
  - Lens base curve must be steepened or overall diameter must be increased
- Corneal Edema
  - Swelling caused by reduced oxygen transmission to the cornea
  - These patients must be fit in a higher Dk material
- Trapped Foreign Body
  - Common cause of acute discomfort during the course of lens wear
  - Lens must be removed and cleaned
  - The patient should be evaluated in office if the problem persists
- Discomfort After Lens Removal/Usually an issue with the cornea Indicates that the lens was acting as a bandage during wear
  - Should be evaluated promptly in office

### Reduced Vision

- [Spherical GP Lenses - FAQ 4 - GPLI](#)
- Lens Deposits
  - Typically caused by improper hygiene
  - Re-education on lens hygiene is extremely important
  - Will only be present with contact lenses and not with spectacles
- Incorrect Prescription
  - Careful over-refraction is crucial with all contact lenses
  - If over-refraction does not improve vision, then repeating the refraction is needed
- Uncorrected refractive astigmatism
  - May be unavoidable depending on the availability of lens parameters
  - Easier to get the correct Rx with a completely custom lens as opposed to a lens from a diagnostic fitting set

- Tolerance for uncorrected astigmatism will vary greatly from patient to patient
- Toric Lens Rotation
  - Soft Lens Applications for the High Astigmat
    - Soft Toric Fitting Narrated PP <https://gpli.info/essentials-for-staff/https://gpli.info/videos/webinar-2014-02.htm>)
    - CLSA Contact Lens Manual Vol 1, Ch 3 <https://clsa.info/Bookstore.aspx?cat=7>
    - CLSA Contact Lens Manual Vol 1, Ch 12 <https://clsa.info/Bookstore.aspx?cat=7>
  - Common cause of blur in astigmatic patients
  - More difficult to manage in patients with oblique astigmatism
  - Can be made worse at near due to encyclorotation of the globe during convergence
  - May need to alter the amount of prism ballast, base curve, or diameter to stabilize lens rotation
- Defective Lenses
  - Lens Verification & Modification Narrated PP <https://gpli.info/essentials-for-staff/>
    - May be an error during the manufacturing process
    - The only remedy in these cases is to replace the lens
- Lens Inversion
  - Common complaint especially with new contact lens wearers
  - Patients will often complain of unilateral foreign body sensation if only one lens is inverted
  - An inverted lens is more likely to catch on the patient's upper lid upon blink
  - VA will likely be reduced due to excessive lens movement and rotation
  - Having the patient examine the lens while it is off the eye can indicate an inverted lens
  - The "taco test"
- Reduced Vision with Contact Lenses and Glasses
  - Could be indicative of a serious problem
  - Should be evaluated in office to determine the etiology of the problem

## Corneal GP

- Toric Corneal GP
  - <https://gpli.info/gp-management-01/>
  - <https://gpli.info/gr-case-toc/>
  - <https://gpli.info/ask-expert/>
  - CLSA Contact Lens Manual Vol 1, Ch 13 <https://clsa.info/Bookstore.aspx?cat=7>
  - Over Refraction-Sphere vs. Sphero-cylinder
    - <https://gpli.info/webinar-2022-06/>
    - <https://gpli.info/videos/webinar-2018-03.htm>
  - Rotation
    - <https://gpli.info/webinar-2022-06/>
    - <https://gpli.info/videos/webinar-2018-03.htm>
- Multifocal
  - <https://gpli.info/gr-case-23/>
  - <https://gpli.info/gr-case-24/>
  - <https://gpli.info/gr-case-25/>
  - <https://gpli.info/ask-expert/>

- translation
  - <https://gpli.info/webinar-2022-01/>
  - <https://gpli.info/webinar-2019-03/>
- Centration
  - <https://gpli.info/webinar-2022-01/>
  - <https://gpli.info/webinar-2019-03/>
- glare
  - <https://gpli.info/webinar-2022-01/>
  - <https://gpli.info/webinar-2019-03/>
- poor distance VA
  - <https://gpli.info/webinar-2022-01/>
  - <https://gpli.info/webinar-2019-03/>
- poor near VA
  - <https://gpli.info/webinar-2022-01/>
  - <https://gpli.info/webinar-2019-03/>
- Ortho k
  - CLSA Advanced Contact Lens Manual Vol 2, Ch 8 Orthokeratology  
<https://clsa.info/Bookstore.aspx?cat=7>
  - <https://gpli.info/ask-expert/>
  - <https://gpli.info/corneal-reshaping/>
  - <https://gpli.info/gr-case-toc/>
  - centration
    - <https://gpli.info/webinar-2021-03/>
    - <https://gpli.info/webinar-2018-11/>
  - glare/halos
    - <https://gpli.info/webinar-2021-03/>
    - <https://gpli.info/webinar-2018-11/>
  - staining
    - <https://gpli.info/webinar-2021-03/>
    - <https://gpli.info/webinar-2018-11/>
- KCN/Irregular
  - <https://gpli.info/ask-expert/>
  - <https://gpli.info/keratoconus-post-surgical/>
  - <https://gpli.info/webinar-2019-08/>
  - residual astigmatism
    - <https://gpli.info/webinar-2021-07/>
  - glare/halos
    - <https://gpli.info/webinar-2021-07/>
  - centration
    - <https://gpli.info/webinar-2021-07/>
  - touch/pooling
    - <https://gpli.info/webinar-2021-07/>
- Scleral Lenses
  - <https://gpli.info/scleral-lenses/>
  - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>
  - <https://gpli.info/webinar-2023-02/>
  - clearance-central/limbal
    - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>

- <https://gpli.info/webinar-2020-06/>
- centration
  - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>
  - <https://gpli.info/webinar-2020-06/>
- blanching-toe/heel
  - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>
  - <https://gpli.info/webinar-2020-06/>
- edge lift off
  - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>
  - <https://gpli.info/webinar-2020-06/>
- toric haptic
  - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>
  - <https://gpli.info/webinar-2020-06/>
- toric power
  - <https://gpli.info/pdf/GPLISLSTSGuide2020.pdf>
  - <https://gpli.info/webinar-2020-06/>

## **CARE SYSTEMS**

- <https://gpli.info/webinar-2025-10/> Materials/Coatings/Solutions-Do they matter? How can laboratory consultants help?
- Lens Care Narrated PP <https://gpli.info/essentials-for-staff/>
- <https://gpli.info/webinar-2022-11/>
- <https://gpli.info/product/scleral-lens-care-tips-application-and-removal-card/>
- CLSA Contact Lens Manual Vol 1, Ch 10 <https://clsa.info/Bookstore.aspx?cat=7>

### **Soft Materials**

- Multipurpose options
- Oxidative
- Ultraviolet
- Storage case hygiene

### **Gas Permeable Materials**

- <https://gpli.info/webinar-2023-03/>
- <https://gpli.info/newsletter-2024-04a/> Scleral lens care
- <https://gpli.info/the-advisor-feb2024-1/> Comfort issues includes care systems
- <https://gpli.info/webinar-2022-11/> Contact lens care and compliance webinar
- <https://gpli.info/lab-consultant-materials-treatments/>
  - Abrasive cleaners
  - Solvent cleaners
  - Multipurpose options
  - Oxidative disinfection
  - Additional protein removers
  - Storage case hygiene