Starting Scleral Lenses Made Simple

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Course Outline

- I. What are considered "specialty lenses"?
 - A. Contact lenses that would be considered medically or visually necessary.
 - B. Contact lenses that are not "off the shelf" and are considered "custom."
- II. Why fit specialty lenses?
 - A. Significant improvement in vision over traditional glasses and contact lenses for some patients
 - B. Sets your practice apart and gain referrals from other eye care providers
 - C. Benefits for patients and for your practice
- III. Types of specialty lenses and best patient candidates
 - A. Scleral and semi-scleral lenses
 - 1. Corneal ectasia
 - a) Keratoconus
 - b) Marginal degenerations such as pellucid
 - 2. Post corneal surgery
 - a) s/p LASIK, PRK, and PRK procedures
 - b) s/p corneal transplant
 - Corneal scarring
 - a) s/p infectious keratitis, injury or HSK/HZO
 - 4. Ocular surface disease
 - a) Severe OSD/dry eye
 - b) Sjogrens
 - 5. High astigmatic refractive error or irregular astigmatism
 - B. Rigid Gas Permeable (RGP) lenses
 - 1. Many of the same indications as scleral lenses

- 2. Patients who have worn RGP previously and are having issues with comfort or vision
- 3. Patients in SV RGP who desire multifocal correction
- C. Orthokeratology lenses
 - 1. Myopia management
 - 2. Alternative to refractive surgery
- D. Other specialty lenses
 - 1. Custom soft lenses
 - a) High refractive error
 - b) Multifocal and/or multifocal toric
 - c) Cosmetic improvement
 - 2. Hybrid lenses
 - a) Overlap with sclerals and RGPs
 - b) Clarity improvement for astigmatism when soft lenses aren't adequate and/or RGP not an option d/t comfort, movement, environment etc.
- IV. Equipment considerations:
 - A. Basics
 - 1. Slit lamp
 - 2. NaFl stain
 - 3. Wratten filter
 - B. Topography
 - 1. While you can fit some custom lenses using keratometer only your speed and accuracy will improve with topography.
 - 2. Topography is needed if orthokeratology is done
 - C. Advanced equipment that is nice but not a necessity to get started:
 - 1. OCT
 - a) Very helpful in scleral fitting as well as in some hybrid lens designs
 - b) Speeds the process as well as removes guesswork from clearance amount and edge landing
 - Scleral topographer
- V. Fitting Case Reports
 - A. RGP Multifocal
 - B. Ortho k for myopia control
 - C. Scleral