

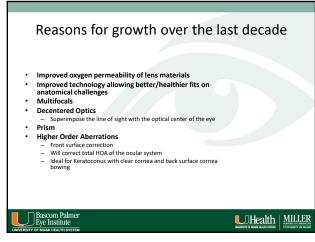
Introduction

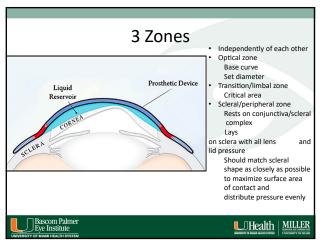
- The popularity of scleral lenses has significantly grown over the last decade and has continued to steadily increase in popularity
- Familiarity of aspects of these lenses will assist in better patient care and proper referral when appropriate
- Despite fantastic advances in lens design and material there are still many aspects of scleral lenses that are still unknown
- Goal: Improve familiarity of indications and contraindications of scleral lenses to assist in identifying patients that may improve quality of life with their use. To introduce unique ways to use scleral lenses for therapeutic purposes and discuss pitfalls and recommendations on how to approach them

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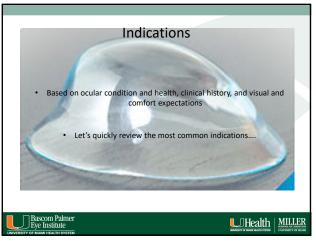
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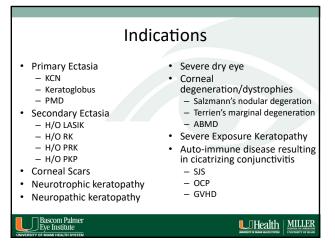


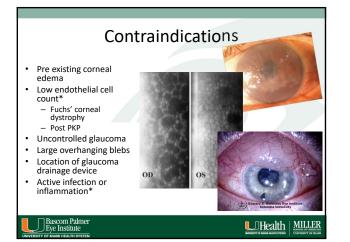


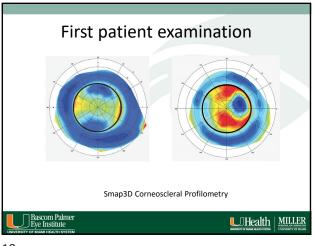




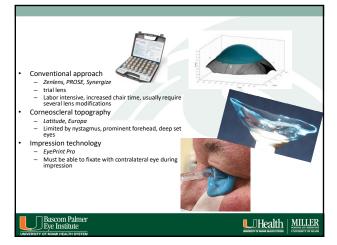




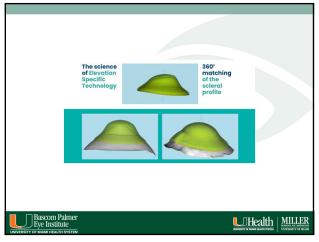








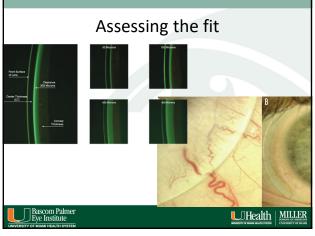


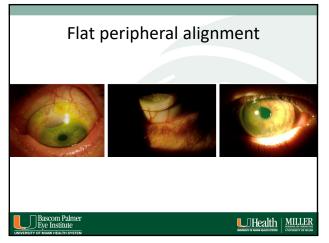




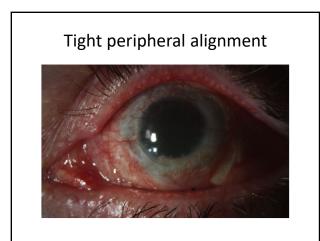














• Video/photo of assessing NaFl flow with a flat scleral lens edge

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Scleral lens fitting conundrums

- Mid-day fogging
- Difficulty with lens removal Very ectatic corneas
- Corneal edema
- How to avoid large anatomical boundaries .
- i.e. pterygium, blebs, large pinguecula, glaucoma drainage tubes
- small lid apertures

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i.e. lateral tarsarhaphy, cictrizing entropion

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Scleral lens Conundrum

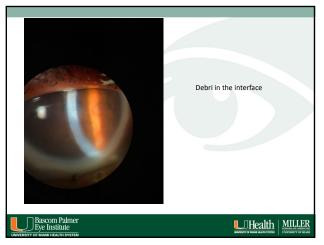
- Mid-day Fogging
- · Gradual disruption of vision requiring lens removal, cleaning, re-filling and re-insertion
- · Particulate matter should be identified in fluid reservoir
 - Consider edema or pre-lens debri if no matter if identified in post lens reservoir

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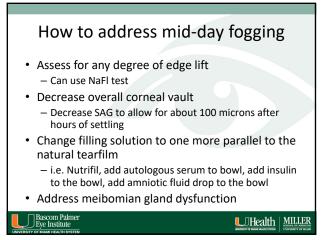
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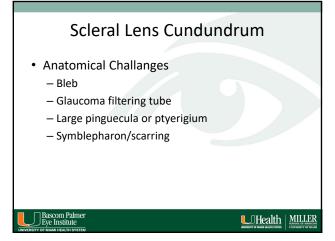
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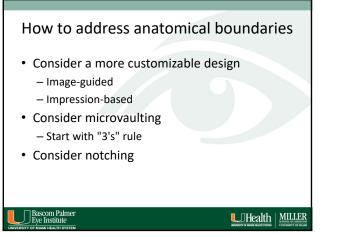








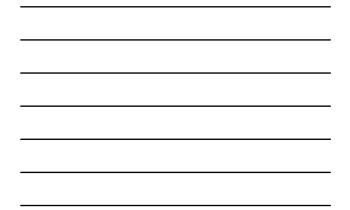














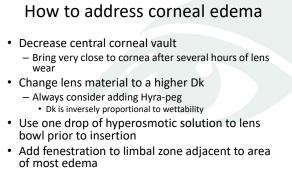
Scleral lens fitting conundrum

- Patients can acquire corneal edema shortly after lens wear
- Should be considered if complaints sound like mid-day fogging but not particulate matter is identified in the fluid reservoir
- Most common if patient has low endothelial cell count or old corneal transplant
 - Helpful if baseline pachymetry is taken prior to lens fitting

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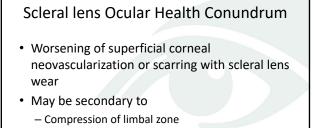
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• If all fails, consider DSEAK or DMEAK and refit

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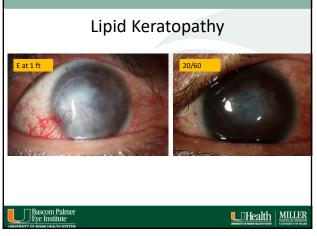
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- Exposure with lens removal while sleeping or if pt is inconsistent with lens wear
- Nature of the disease process

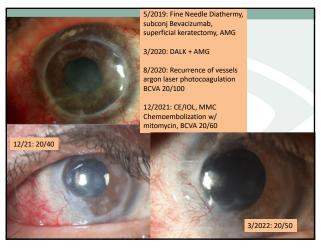
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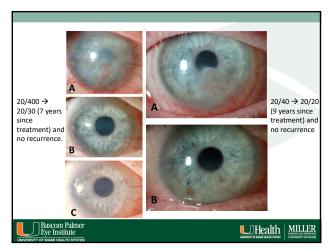


Long-term outcome of using Prosthetic Replacement of Ocular Surface Ecosystem (PROSE) as a drug delivery system for bevacizumab in the treatment of corneal neovascularization

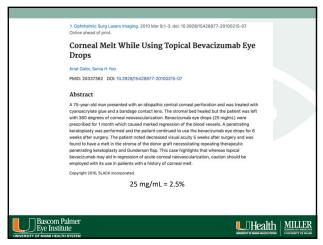
Jia Yin ¹, Deborah S Jacobs ²

- Retrospective, non-comparative, • interventional case series 13 patients SJS, GVHD, PKP, LSCD, familial
- 92% had regression of KNV 77% improved vision
 KNV progressed in one eye
 No ophthalmic or systemic
- complications
- dysautonomia
 1 gtt 1% bevacizumab in bowl of lens then topped with saline BID
- Follow up b/t 6 mos and 11 years Mean follow up 5 years
- Mean duration of treatment 6 mos
- Ranged from 3 mos to 10 yrs Bascom Palmer Eye Institute

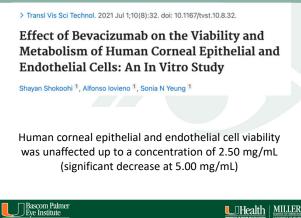
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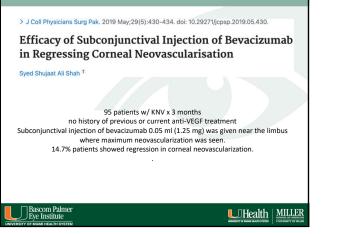


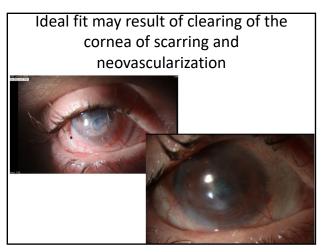




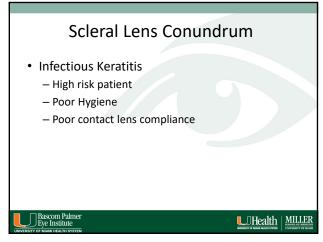


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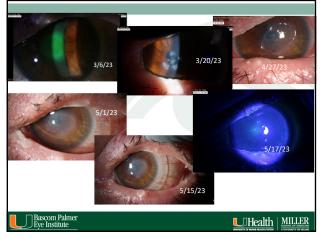




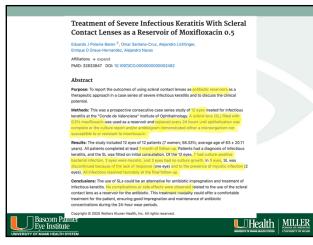


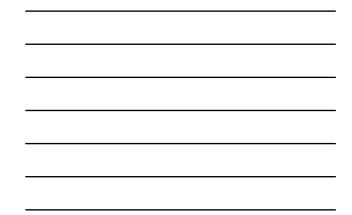




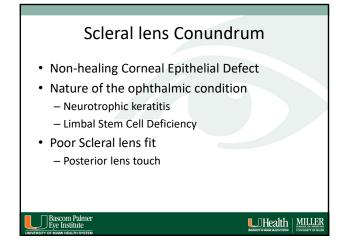




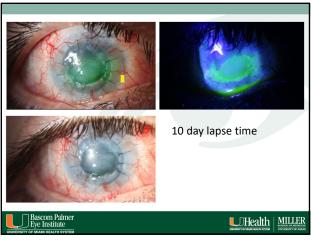




- Who can you use this on
- KCN already fit with scleral
- PKP already fit in scleral









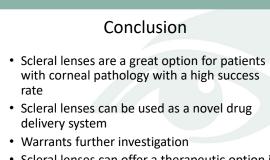












 Scleral lenses can offer a therapeutic option in non-healing epithelial defects, corneal neovascularization, and infectious keratitis

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