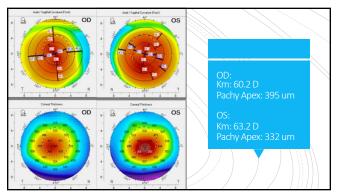
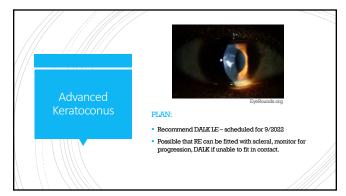


## Case 1: Advanced Keratoconus OU \* 35yo Male referred to Devers Cornea Clinic due to progression in both eyes \* Pertinent Ocular History: 2016 Diagnosed with keratoconus CXL OU in Spokane \* Per referral notes, patient has failed CXL and contact lenses, has been referred here for possible DALK/ PK \* Wearing Rx: Right -18.00 +7.25 091 20/200 Left -16.75 +4.75 065 20/400-





## Medical Contact Lens Evaluation Previously wore soft torics. Tried sclerals in 2016, but discontinued due to pain Has DALK scheduled in September OS, but desires to be fit with a CL OU in the interim. Current Contact Lens Rc (Trial Lens) | Sight | Custon Stable | 4100 | 15.8 | 10.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.0

# Medical Contact Lens Evaluation: Visit #2 Patient returns for lens dispense and insertion/removal training Good News: Successful training! Bad News: Lenses have central touch, unable to dispense

Medical Contact Lens Evaluation: Visit #3

- New lenses fit well; dispensed to patient
- Patient asked corneal specialist about delaying his surgery, since it is only 1 month away
- Response from corneal specialist:

"If you are able to be fit with scleral lenses, I would strongly suggest considering delaying your transplant indefinitely. A contact lens is much safer than a corneal transplant. Additionally, most patients who have a corneal transplant will still need a contact lens for their best vision."

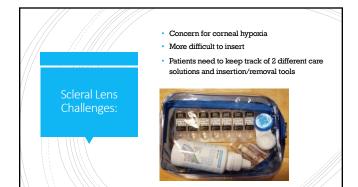
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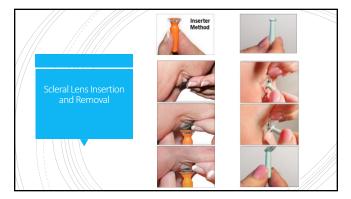
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#### Medical Contact Lens Evaluation: Visit #4

- Doing well in the lenses, getting used to them
- Ordered lenses with over-refraction, shipped directly to patient
- Return in 1 month for follow-up

### Medical Contact Lens Evaluation: Visit #5 Doing very well with the scleral lenses Planning on a career change now that his vision has improved: got accepted into pharmacy technician program Return in 6 months for follow-up Postpone corneal transplant indefinitely



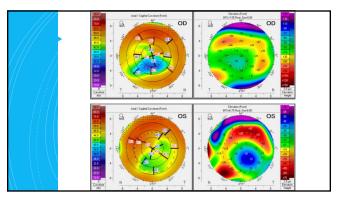




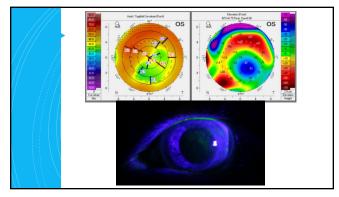


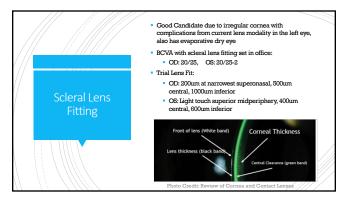






## Exam Findings: " Visual Acuity: " OD sc 20/70 " OS cc (contacts) 20/50 +2 " Cornea: " OD: PK, no sutures. Coarse 3+ PEE horizontal across midline. TBUT: 4 secs " OS: PK, no sutures. 2+ NaFI staining superior and inferonasal midperiphery corresponding to areas of greatest elevation on topography, staining at 3:00 and 9:00 periphery over small nodules. TBUT: 3 secs





# Scleral Lens Order and Outcome: Ordered quadrant-specific lens design Ordered with Hydra-PEG coating due to dry eye Successful insertion/removal training, despite having multiple sclerosis, which has affected sensation in her fingers After a few remakes, achieved good comfort, vision, and fit At recent follow-up 4 years after initial fitting: VA with scleral lenses: OD: 20/25+1 OS: 20/20-2 Keratitis has completely resolved

#### \*\*Scleral lenses can treat a wide variety of ocular conditions, including irregular corneas and ocular surface disease \*\*For patients with irregular astigmatism, scleral lenses can provide much clearer vision than glasses \*\*Scleral lenses can sometimes correct a patient's ocular condition without surgery, which spares them from the associated risks \*\*Scleral lenses are highly customizable \*\*For the right patient, they can be life-changing