

Prevent Corneal Erosion with this Custom Scleral Lens

by Stephanie L. Woo OD FAAO FSLS

RF, a 68 yo WM presented to the clinic for a painful OD x 2 days on August 18, 2017. He had a positive history of LASIK surgery in 1998 OU and some complaints of intermittent dry eye OU. He stated his OD suddenly became painful, sensitive to light, with a constant flow of tears.

Upon observation, a very large corneal abrasion was apparent (image 1) with a large epithelial defect. Due to the size of the abrasion and the location (central), he was started on Vigamox Q1 hr and fortified tobramycin Q1hr. A prokera amniotic membrane was also placed on the eye. He was followed carefully over several weeks, and the prokera was replaced as needed. The abrasion and epithelial defect became smaller in size each day, and the patient's symptoms mildly improved each day, too.

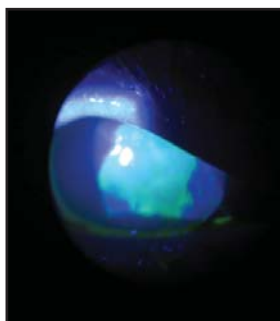


Image 1

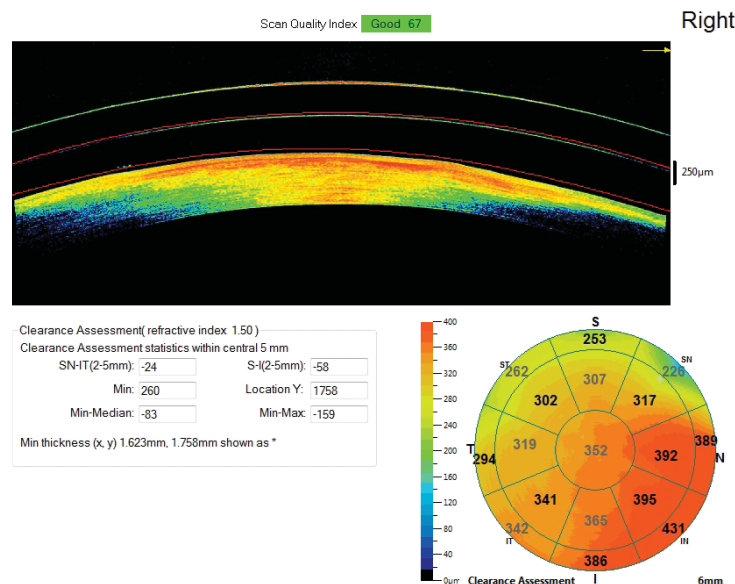
After the epithelial defect completely resolved, central corneal haze remained, along with an irregular corneal shape. After the epithelial defect healed, a steroid eye drop was given for the course of 1 month with proper tapering. Even with steroids,

central corneal haze remained. Best corrected visual acuity in the OD was 20/400.

At this time, a scleral lens was discussed in detail as an option for the patient. This device would attempt to correct his vision, and also provide a barrier between the cornea and the outside environment to prevent a recurrence.

After a diagnostic fitting, the scleral lens was ordered as: Ampleye/15.0 OAD/8.45/3600sag/-2.00 Optimum Extra material.

Upon dispense, the patient could see 20/70. He exclaimed his vision was "great" and he was happy with the comfort. At each of his follow ups, he has not had any recurrences of corneal defects, and he remains happy with the comfort and vision through the lens.



Dr. Stephanie L. Woo graduated from the Southern California College of Optometry and completed a Cornea/Contact Lens residency at the University of Missouri - St. Louis. She is a Fellow of the American Academy of Optometry and a Fellow of the Scleral Lens Education Society. She is a contributing author for the American Optometric Association Contact Lens and Cornea section, and she is the author of the "GP Expert" column for Review of Contact Lenses. She is also the Public Education Chair for the Scleral Lens Education society and is an Advisory Board member for GPLI. She currently practices at Havasu Eye Center in Lake Havasu, AZ.

