

## CASE STUDY

### SMARTSIGHT HOA® CORRECTS VISUAL ACUITY IN PATIENT WITH POST- SBK HOAs

#### BACKGROUND

The patient is a 48-year-old male with post-SBK ectasia since 2012. He got SBK to correct cylinder and myopia, and to get out of eyeglasses and soft contact lenses due to dryness.

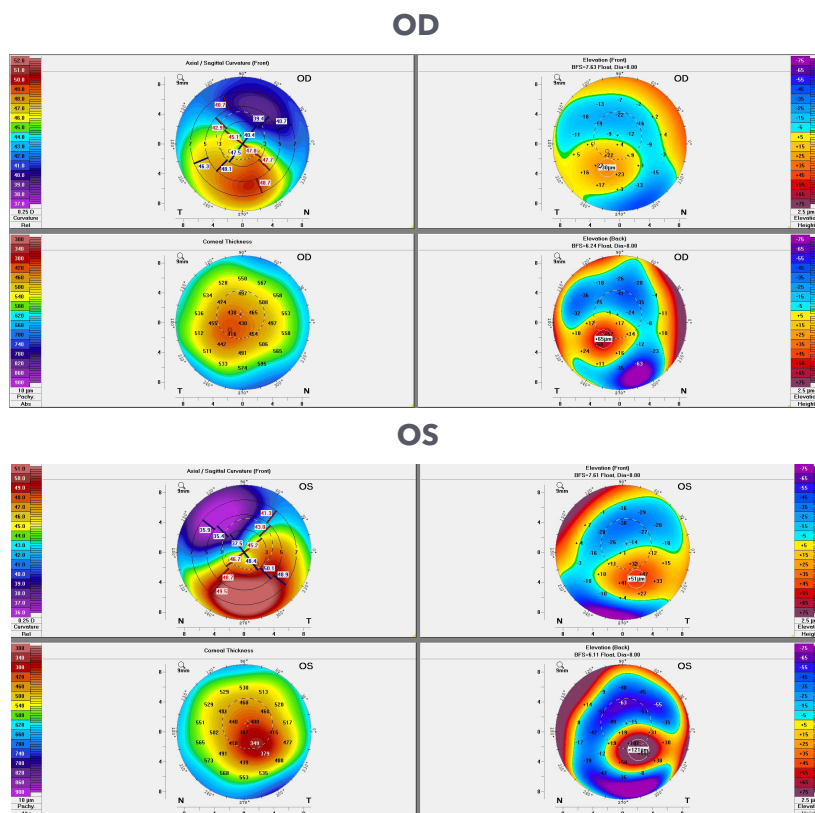
The patient is a dentist, and his chief complaint is glare and starbursts at work under intense lighting. He is also not comfortable driving at night due to glare. His ocular health is otherwise within normal limits.

OU (OS > OD)  
CXL OU  
Scarring OS > OD

#### BCVA in glasses

OD 20/25-2  
OS 20/40+2

#### TOMOGRAPHY



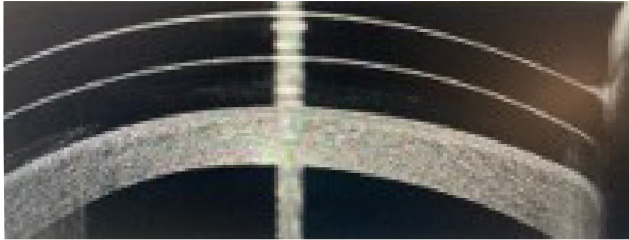
**DR. BRITTANY YELLE**  
Precision Cornea Centre  
Ottawa, ON, Canada

*Dr. Brittany Yelle is an American Board-Certified optometrist. Dr. Yelle has recently completed a PROSE® fellowship through Boston Sight, making Precision Cornea Centre one of only two centers in Canada to offer patients PROSE treatment. Dr. Yelle completed a joint internship with EyeDOCS and Precision Cornea Centre in Ottawa, where she gained experience in the diagnosis and management of ocular disease with a concentration in cornea and anterior segment pathology. She is passionate about specialty contact lenses and ocular surface disease, her areas of interest at Precision Cornea Centre.*

## SCLERAL LENS FITTINGS

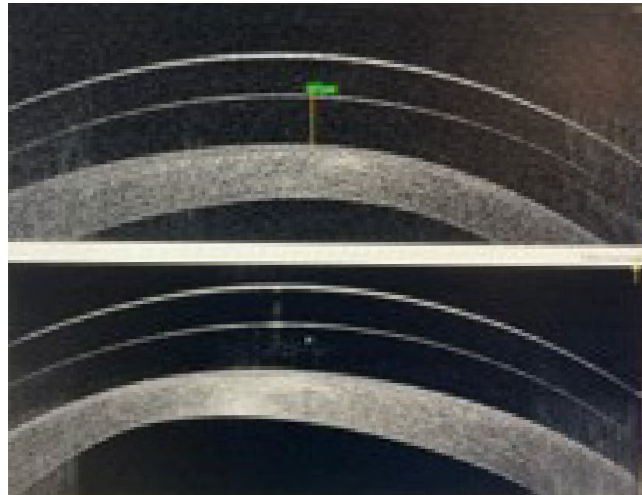
- Fit patient with new BostonSight SCLERALS: 18.5mm
- Required one adjustment to get to final fit
- Patient reported: *"My vision in sclerals is better than in glasses, but still not perfect."*

OD



VA 20/15, adequate fit and vision

OS



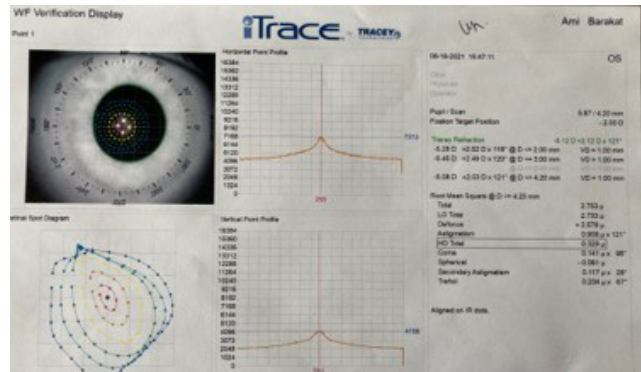
VA 20/25, adequate fit, but still not the best vision

## ADDED SMARTSIGHT HOA®

To further improve VA and correct glare and starbursts, I added BostonSight SCLERAL's SmartSight HOA technology to the lenses.

I scanned the patient's eyes with the iTrace aberrometer and sent the scans to BostonSight to produce a custom HOA correction alignment lens.

I fit the HOA alignment lens and then ordered the final HOA lens based on the alignment lens. No additional adjustments were needed.

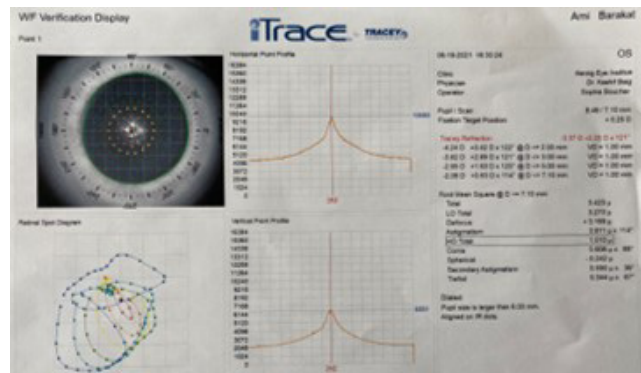


iTrace aberrometry scan pre-dilation

## RESULTS

### Final Fit: Patient VA 20/20!

At follow-up, the patient stated he no longer has to squint to see when working and that night driving is much easier. He also stated that for the first time he felt he wasn't compromising his visual acuity and comfort.



iTrace aberrometry scan post-dilation