Using BostonSight SCLERAL Smart360® to design a lens for dry eye relief

CASE STUDY

BACKGROUND
Female patient age 38 presented with dry eye disease. She is a minus 7 myope who has worn premium soft contacts her whole life. Even still she suffers from dry eye disease and SPK. She would use 10 drops a day of ATs to help her dry eye. She did not require visual improvement but rather a lens to provide relief from her dry eye symptoms.

PROTOCOL
I chose to use BostonSight SCLERAL’s Smart360 design technology to design a free-form scleral lens and allow the Eaget and BostonSight SCLERAL to do the fitting for us. I used the Eaglet ESP to scan her eyes and uploaded the scan to my FitConnect® account via DirectConnect.

PATIENT SCAN WITH EAGLET ESP

www.bostonsightscleral.org
SCLERAL LENS FITTINGS
Designed an 18.5mm lens. The first lens design came out beautifully, with a smooth, comfortable fit. No adjustments were needed.

Patient reports exceptional comfort and relief from dry eye symptoms. She wears the lenses from 5 a.m. to 10 p.m. every day with no symptoms or corneal findings. With her sclerals she needs only 2 drops a day of ATs am and pm. She had a lot of fluctuating vision with soft lenses due to dryness but now has all-day comfort and improved vision/stability with her BostonSight SCLERALS.