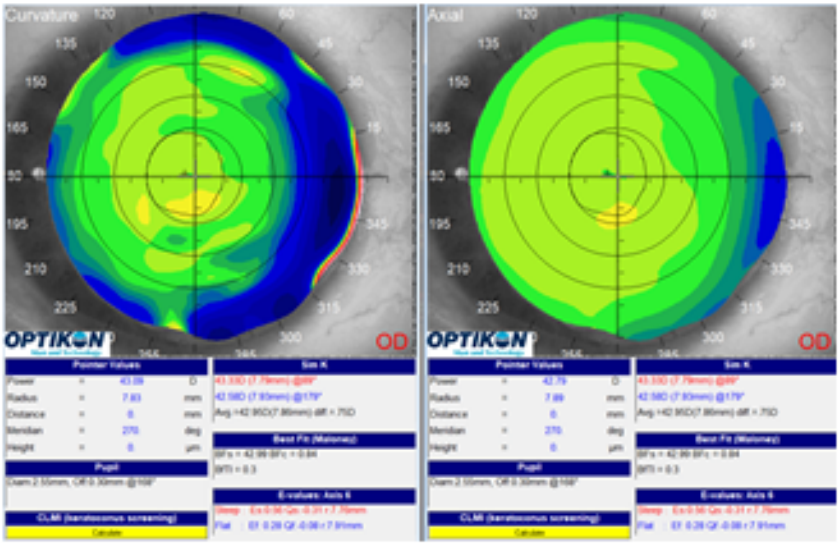
Case Abstract Sample 2

Case Abstract

Candidate name:
Case #: 2 Eye: R
Prefitting Rx: +3.00 sph

Attach prefitting topography with brief analysis

Fairly spherical cornea with a low-to-average E-value (eccentricity).



Summary of treatment design used (eg., manufacturer, custom designed, design philosophy, etc).

Wave
Corneal-Scleral (translimbal design)
Hyperopic Multifocal ortho-k

If additional molds were needed explain why briefly

3 molds were needed to achieve a successful fit that yield adequate visual acuities, with refractive stability and corneal health.
The initial designs caused a large central lake with apical flattening, surrounded by a small 'bull's eye' consistent with pericentral steepening and a further paracentral flattening area. This is typical of a hyperopic orthokeratology lens that, albeit the curvature change yield, it fails to complete true, effective and full curvature changes that result in a centered, homogeneous central steeper corneal curvature.

Why is this case interesting, unique or complex?

A moderate degree of hyperopic correction was attempted with a corneal-scleral (trans-limbal) lens design. Corneal-scleral designs have an added degree of complexity since the landing/clearance zones have to be designed without true topographic data that does not capture information from the cornea beyond the central 9 mm area.