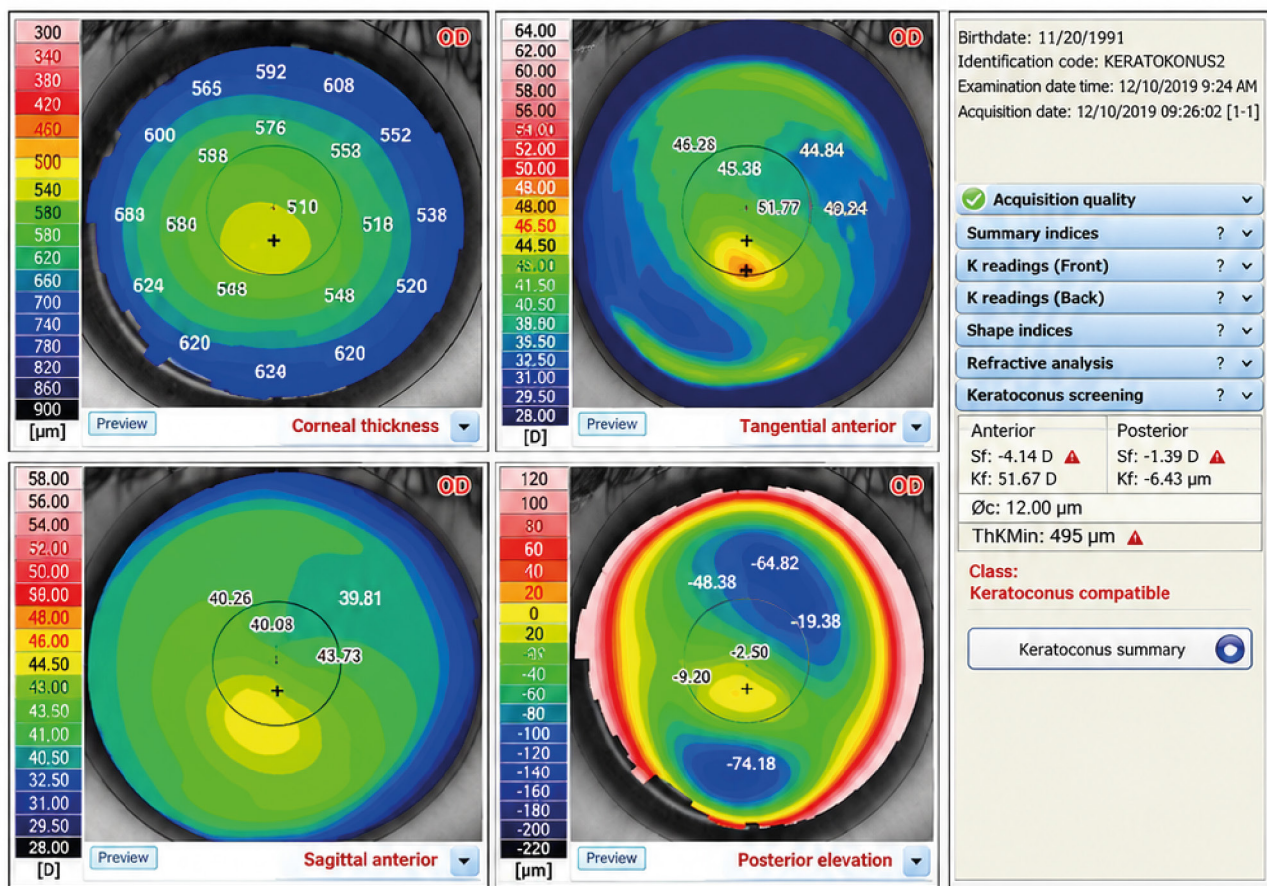
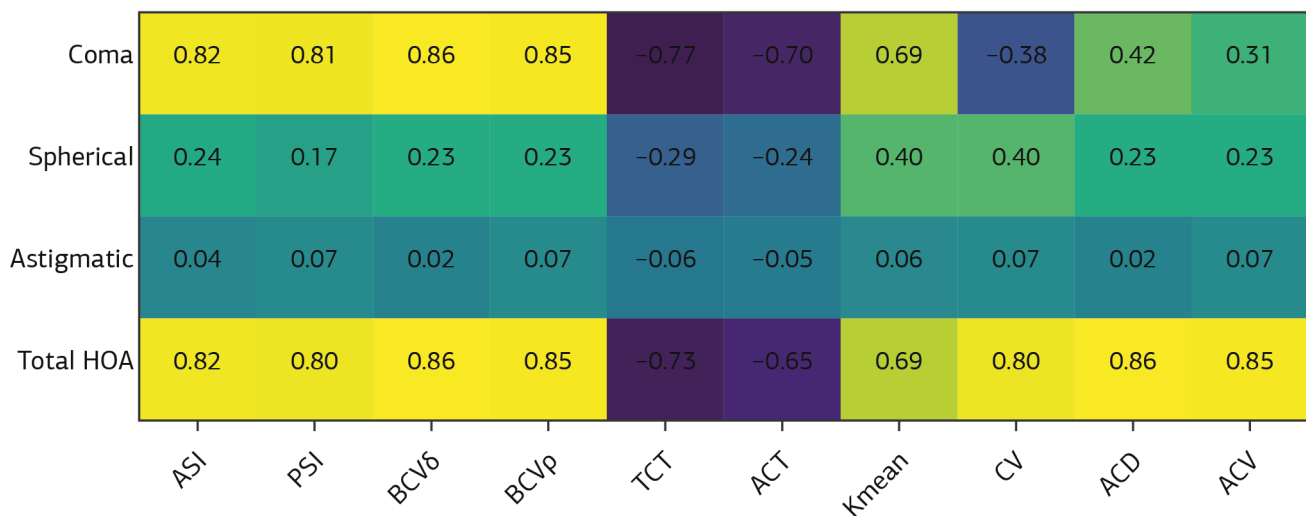




Supplementary Figure 1. Representative Scheimpflug Tomography Maps Obtained with the Sirius System in a Keratoconic Eye
The multimap display shows corneal thickness distribution, anterior and posterior curvature maps, and elevation patterns characteristic of keratoconus.

Correlation heatmap of HOAs and structural parameters



Supplementary Figure 2. Heatmap Showing the Correlations Between Higher-Order Aberrations (HOAs) and Structural Parameters of the Cornea and Anterior Segment

The color-coded matrix represents Spearman correlation coefficients between HOA components (coma, spherical, astigmatic, and total HOAs) and corneal/ anterior segment parameters including ASI, PSI, BCV indices, corneal thickness, keratometry, corneal volume, and anterior chamber metrics.