Corneal Topography: Taking Interpretation and Diagnosis to the Next Level

Suzanne W. Sherman O.D. F.A.A.O, Columbia Doctors, USA
Fiza Shuja O.D., New York Presbyterian Columbia, USA

Abstract:

The use of corneal topography for clarification, confirmation, diagnosis and treatment has increased dramatically in both private practice and hospital settings. Both Ophthalmologists and Optometrists are using these devices as part of ancillary testing to determine the cause of visual disturbance and decreased vision. As optometrists, we are trained to observe for the clinical findings for specific corneal conditions, for example: Keratoconus and Pellucids Marginal Degeneration. With the appropriate training and use of corneal topography, optometrists can identify and diagnose corneal disease. The proper interpretation and analysis of corneal topography results, however, are not as well understood, leading to errors in diagnosis and as a result treatment/management. This lecture aims to review the practical use of the sagittal curve, front elevation, posterior elevation and corneal thickness maps, while educating practitioners on proper diagnosis and interpretation of topography results. It will cover cases with various corneal disease and explain interpretation, diagnosis and management. It will also reveal recommendations on how to incorporate corneal topography co-managing with a corneal specialist.

Image 1: Pellucids

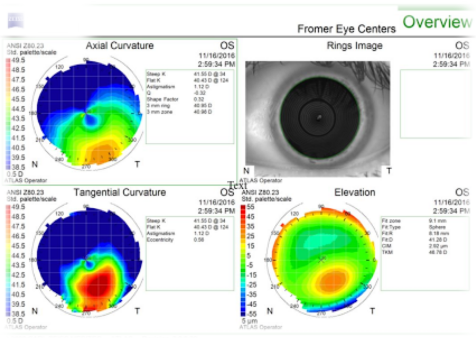
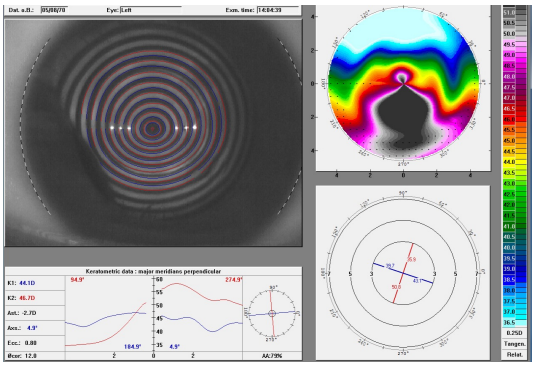
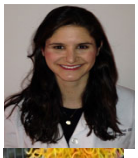


Image 2: Keratoconus





Suzanne Walter Sherman, OD, FAAO is Instructor in Optometric Science in Ophthalmology at Columbia University Medical Center. She is board certified in the American Board of Optometry and National Board of Examiners in Optometry (NBEO). Dr. Sherman graduated from SUNY College of Optometry and completed a residency in Ocular Disease and Primary Care from Bronx Lebanon Hospital Center.



Fiza Shuja, O.D. is a graduate of the Pennsylvania College of Optometry at Salus University. She completed her residency at the Northport Veteran Affairs Medical Center. Currently she is a staff optometrist at the Eye Clinic in Ambulatory Care at New York-Presbyterian Hospital.

ashuja@gmail.com