



Keratoconus and Keratoectasia: Prevention, Diagnosis, and Treatment

Ming Wang MD

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In recent years, keratoconus and keratoectasia have become increasingly important ophthalmic diseases due to the increasing number of keratorefractive surgeries being performed, the subsequent rising number of complications, and the availability of new treatment modalities for keratoconus and keratoectasia other than corneal transplantation. For both the genetic form of the disease (keratoconus) and the acquired form (keratoectasia), new modalities of diagnosis and treatment have enabled physicians to manage and treat these diseases earlier and more effectively, which can delay or even prevent major surgeries.

Keratoconus and Keratoectasia: Prevention, Diagnosis, and Treatment by Dr. Ming Wang, along with over 40 contributors, represents the first state-of-the-art, comprehensive synthesis of the current understanding of the etiology, prevention, diagnosis, and treatment of keratoconus and keratoectasia.

Diagnostic Modalities Include:

- Topographic diagnosis – placido disc and elevational mapping analysis
- Posterior corneal analysis, three-point touch method and FFKC criteria 2009
- Corneal pachymetry mapping and progression analysis
- Statistical analysis packages for KC
- New imaging technologies for the cornea including OCT
- Topographic corneal irregularity analysis for premium IOLs
- Measuring corneal strength – corneal hysteresis
- Corneal epithelial mapping with ultrasound biomicroscopy
- Wavefront analysis in keratoconus
- Infrared light image screening – a new screening tool for keratoconus

Treatments Include:

- Non-surgical treatment with contact lenses
- Ocular surface treatment
- Lamellar and penetrating keratoplasty
- Excimer laser surface treatment
- Topography-guided excimer laser treatment
- Wavefront-guided excimer laser treatment
- Intacs intracorneal segment
- UV-cross linking
- Combination treatment of cross-linking, Intacs and excimer laser ablation
- Future treatment

Keratoconus and Keratoectasia: Prevention, Diagnosis, and Treatment is a concise, well-illustrated and clinically indispensable guide for treating these two important ophthalmic diseases and is a must-have for all ophthalmologists, optometrists, residents, fellows, and medical students.

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