Toric orthokeratology contact lenses for patients with corneal elevation differences

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Orthokeratology is a well-established process by which the corneal surface is reshaped in order to correct refractive ametropia through the use of specic c contact lens designs. Orthokeratology lenses are reverse geometry lenses specially designed to have very low clearance over the pupil. ese designs are comprised of dierent zones to either provide treatment or stabilize the lens and can be organized into two broad categories: corneal refractive therapy (CRT, Paragon vision sciences, Inc.) or vision shaping treatment (VST, Bausch + Lomb). is lecture will review fundamentals in orthokeratology as well as troubleshooting common problems faced in practice. e presentation will then discuss more advanced design options available to apply ortho-k tting to more patients by focusing on toric designs as well as describing other ways of customizing a t. is will be done through discussion of elevation data obtained through a corneal topographer including how to measure the values and apply it when designing an orthokeratology lens. Topographical data is critical in understanding the shape of a patient's corneal surface and thereby designing an appropriately tting contact lens. Topographical maps will be discussed and analyzed to explain how to troubleshoot di erent problems and guide custom lens design.

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Biography

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