

Corneal Topography Examination for Dry Eye



Overview

Corneal imaging techniques are valuable tools for diagnosing and monitoring DED, as they can provide objective and quantitative information on the structure and function of the ocular surface and the tear film. This chapter will review the principles and applications of various corneal imaging. Corneal topography and tomography is most commonly used for the following purposes Refractive surgery: To screen candidates for normal corneal shape, patterns and ruling out suspicious or keratoconic patterns. According to the TFOS DEWS II, it is defined as a chronic multifactorial inflammatory disease characterized by a loss of tear film homeostasis and accompanied by ocular symptoms, tear film hyperosmolarity, ocular surface inflammation and. The TERA Dry Eye Imager is a multimodal platform purpose-built to detect, grade, and manage dry eye disease. Powered by robotic automation and high-resolution imaging, TERA standardizes capture, streamlines workflow, and delivers clear, actionable guidance for treatment and follow-up. Through precise corneal diagnostics and tear film analysis, it identifies underlying causes, aiding in the prevention and treatment of.



Article Content

Corneal Topography

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10 Best Contacts for Dry Eyes (Picked By an Optometrist)

If you're looking for the best contacts for dry eyes, this guide provides a list of the top brands and products to help keep your eyes hydrated all day.

Diabetic Retinopathy Treatment in Goa | ASG Eye Hospital

ASG Eye Hospital provides advanced corneal diseases treatment in Goa through experienced ophthalmologists, modern diagnostic technology, and personalized eye care. The cornea is the

Full Corneal Topography System with Dry Eye Analysis HTG-1

HTG-1 offers an integrated evaluation of corneal topography and dry eye diagnosis in a single device, allowing for an accurate assessment of overall eye health.

3+ Top Eye Clinics in Thailand 2026

Searching for the top medical clinics providing Eye in Thailand? Compare 2026 ratings, expert specialists, and proven patient outcomes now.

LASIK Eye Surgery (2026): Types, Cost, Eligibility

Medically reviewed by Dr shad Shroff, MS - Refractive and Cornea Surgeon, Shroff Eye Centre, Delhi NCR LASIK Eye Surgery in India for Specs

How to Read Corneal Topography

You're starting your first-year rotation in cornea clinic and need a quick breakdown on how to read corneal topography. Here's a simple step-by-step approach. It's important to note that while

TERA Dry Eye Imager™ | Topcon Healthcare

The TERA Dry Eye Imager is a multimodal platform purpose-built to detect, grade, and manage dry eye disease. Powered by robotic automation and high

What Is Corneal Topography? Procedure, Side Effects

Learn what a corneal topography test is, why it's important, how it works, what to expect, possible side effects, cost & alternatives.

Work-Up for Diagnosing Dry-Eye Disease

If >5 corneal fluorescein punctate spots and/or >9 conjunctival lissamine green punctate spots appear, then the patient is positive for dry eye.

Corneal Topography Guide

Corneal topography is a cutting-edge, non-invasive imaging test that creates a detailed, color-coded map of the cornea's surface curvature and

Diabetic Retinopathy Treatment in Ahmedabad | ASG Eye Hospital

ASG Eye Hospital offers advanced corneal diseases treatment in Ahmedabad through state-of-the-art diagnostic technology, experienced cornea specialists, and personalized treatment plans. The

Corneal Ulcer: Symptoms And Urgent Treatment

An eye examination may also look for related problems such as dry eye, eyelid closure issues, or conditions that affect the shape and health of the cornea. In selected cases, imaging or

Corneal Transplant: Need, Procedure, And Recovery

Key Takeaways A corneal transplant replaces part or all of the clear front layer of the eye when it becomes scarred, swollen, thin, or irregular. Different types of corneal transplant are

Imaging Modalities for Dry Eye Disease

Although corneal pachymetry and epithelial thickness maps are not diagnostic criteria for dry eye disease, studies have shown considerable differences in patients with DED as compared to healthy

What is the Best Refractive Surgical Choice for Patien...

Curr Eye Res. 2016;41 (9):1202-1208. 5. Cetinkaya S, Gulmez M, Mestan E, Ucar F, Ali N. Influence of incision size on dry eye symptoms in the small incision lenticule extraction procedure. Cornea.

Advances in the diagnosis and treatment of dry eye

In our experience, we observed that examiners struggle to measure the corneal topography of patients with severe dry eye and came up the ideas of serial corneal topography

Cornea/External Disease Summary Benchmarks

Recommendations distilled from the PPPs for the diagnosis and management of bacterial keratitis, blepharitis, conjunctivitis, corneal ectasia and opacification, and dry eye syndrome.

Corneal Topography

As with any investigation, they are used best and most optimally if the doctor has a good history of the ocular problem, and has performed a thorough

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A Guide to Corneal Topography with Cheat Sheet

Brush up on corneal topography and tomography basics, including when to consider and how to interpret corneal elevation maps on the go.

What Is Optical Coherence Tomography?

Optical coherence tomography (OCT) is a non-invasive imaging test that uses light waves to take cross-section pictures of your retina, the light

Corneal Imaging Techniques for Dry Eye Disease

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Dry Eye Disease (Keratoconjunctivitis Sicca) Workup

Corneal thickness has been shown to increase after treatment with artificial tears, and this may be a useful diagnostic and follow-up criterion for dry eye disease.

Vision After Corneal Transplant: Realistic Expectations

Dry eye is common after corneal transplant because surgery can disrupt the nerves that trigger tear production. A dry ocular surface heals more slowly and feels uncomfortable.

Corneal Irregularities Treatment in Kyle, TX | Spark Eye Care

When the smooth, dome-shaped surface of your cornea becomes distorted, even simple tasks like reading or driving can become challenging. At Spark Eye Care, we specialize in diagnosing and

LASIK Cost 2026: Why Your Bill Will Be \$2,000 More

Marcus Rodriguez planned to spend \$4,000 for LASIK surgery in Denver during January 2026. His final bill? \$6,200 for both eyes. Pre-operative

Corneal Topography

Step 6 . Compare with slit lamp findings again. It should always be kept in mind that corneal topography can be effected by corneal artifacts and therefore

Contact Us

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