

CTAK

Corneal Tissue Addition Keratoplasty



CTAK offers an advanced solution for contouring keratoconic eyes to significantly improve sight for patients in need. Using CorneaGen's Custom Tissue Inlays, CTAK provides patient-ready, gamma-irradiated sterile, non-immunogenic donated corneal tissue inlays that are laser-cut and customized to patients' specific severity and cone location.

Advantages*

CTAK is designed to improve visual outcomes, greater surgical precision, and faster recovery times.

- Precision and accuracy of a Ziemer Z8 laser-cut custom tissue inlay
- Biocompatible and fully customizable
- Clinical study showed no rejection of tissue post-transplant
- Custom surgical options detail inlay placement and sizing.
- Topography flattening and visual acuity improvement
- Gamma-irradiation adds rigidity to the inlay and stability for the surgeon

Recommended Patients

Moderate keratoconus: 50D-75D.

Patients with ectasia need more care and can schedule a consultation.

- Moderate sized cones: ≤ 4.0 mm in width
- No cone which extends outside of the central 6mm optical zone (~3.0mm from the center of the pupil)
- No scarring in the visual axis

*Greenstein, S. A., Yu, A. S., Gelles, J. D., Eshraghi, H., & Hersh, P. S. (2023). Corneal tissue addition keratoplasty: New intrastromal inlay procedure for keratoconus using femtosecond laser-shaped preserved corneal tissue. *Journal of Cataract & Refractive Surgery*, 49(7), 740–746. <https://doi.org/10.1097/j.jcrs.0000000000001187>

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CorneaGenTM

CTAK

Procedure Overview

Preparing the patient for channel creation

1

Mark the graft angles. Then mark the distance from center of pupil, inferior and temporal based on your selected surgical plan. Using an Optical Zone Marker encompass the inferior and temporal marks.



2

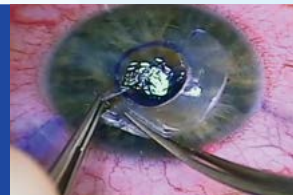
Center the laser over the optical zone marker, perform the laser cut, and clear the channel.



Inserting the inlay

1

Hold the CTAK tissue near the proximal end. While holding the channel open with straight forceps begin inserting the segment into the channel. Continue to progress the inlay throughout the channel.



2

Once you cannot advance the inlay further, use the CTAK Manipulator to clear the final turn.



3

Use the CTAK Applinator to smooth the inlay out, matching the incision angles provided on the surgical plan.

