

CTAK

Corneal Tissue Addition for Keratoplasty



CTAK is the latest advancement in keratoconus treatment, focused on accuracy and precision for both patients and surgeons. This innovative procedure involves the use of a CTAK inlay, designed to optimize corneal flattening, improve visual acuity, and add thickness to the cornea.

Using a Ziemer Neo Z8 Femtosecond Laser, CorneaGen processes tissue to the precise parameters for each patient. The tissue is sterilized, packaged and shipped with a custom surgical plan.

Advantages

CTAK creates an offering to improve outcomes by treating each patient for the unique progression of keratoconus they've experienced.

- Precision and accuracy only a laser can provide
- Biocompatible and fully customizable
- No rejection of tissue post-transplant
- Custom surgical plan detailing the recommended placement and inlay sizing
- Topography flattening and visual acuity improvement
- Gamma-irradiation adds rigidity to the inlay and stability for the patient

Recommended Patients

Moderate keratoconus: 50D-80D.

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

[Learn More](#)

To learn more visit [CorneaGen.com/CTAK](https://www.CorneaGen.com/CTAK)

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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 surgical plan. Using an Optical Zone Marker encompass the inferior and temporal marks.



2

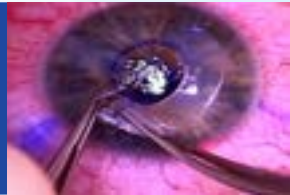
Center the laser over the optical zone marker, perform the laser cut, and clear the channel.



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.

