

BrightMEM Corneal Allograft

Advanced Corneal Allograft
Overcomes the Limitations of
Conventional Therapies

BrightMEM Overview

The BrightMEM Corneal Allograft

BrightMEM Anterior Lamellar Keratoplasty is a surgical procedure that utilizes a BrightMEM corneal allograft to improve the conditions of the ocular surface to support the survival, maturation, and multiplication of corneal epithelial cells.

The foundational technology behind BrightMEM was developed by Lions Gift of Sight at the University of Minnesota in Saint Paul, MN.

The product is aseptically processed from tissues obtained from donated human tissue (corneas) according to the current Good Tissue Practices (cGTP) regulations established by the US Food & Drug Administration (FDA).

Advantages of BrightMEM?

BrightMEM allografts can be used to achieve the following benefits:

- Permanent basement membrane (type IV collagen) that promotes corneal epithelial adhesion and corneal re-epithelialization.
- Natural collagen structure of BrightMEM is the basis for a highly-durable tissue that provides protection against stromal degradation.
- Environment more conducive to limbal epithelial cell survival, growth, and proliferation compared to other therapeutic options.

Procedure Overview



Prepare the Patient

Place a speculum in the patient's eye and debride the epithelium or pannus over the cornea out to a diameter at least 0.5mm wider than the anticipated diameter of the desired allograft. It is important to avoid any overlap of BrightMEM with the peripheral epithelium. Dry the anterior stromal bed thoroughly with a weck cel sponge.



Trephine the BrightMEM Allograft

Trephine the tissue to an appropriate diameter (recommended 6.5mm - 9.0mm) to fit within the area of epithelial debridement and then discard the scleral rim.



Place the BrightMEM Allograft

Place the trephined corneal button with the BrightMEM allograft side down onto the cornea surface, staying within the margins of the epithelial debridement. Allow the cornea button to dry in place. Peel the anterior corneal button away leaving the BrightMEM allograft in place.



Smooth Out the BrightMEM Allograft

If there are wrinkles in the BrightMEM allograft, use a 30g cannula to gently sweep over or under the graft to smooth it out. After the graft is smooth and its orientation is confirmed, wick residual interface fluid out.



Adhere the BrightMEM Allograft

Place tissue fibrin glue over the graft, taking care to completely cover the edges of the graft. Place a bandage contact lens over the glue and carefully remove the lid speculum, without dislodging the contact lens.

