Recent Advances in Corneal Transplant Surgery

Nawal Oubazz Y

Department of Ophthalmology, University of California, San Diego, USA

DESCRIPTION

Cornea transplant is a process that replaces your cornea, the clear front layer of your eye. During this process, your general practitioner takes out broken or diseased corneal tissue. Healthy corneal tissue from the eye of a deceased human donor replaces the damaged cornea. For many human beings, cornea transplant surgical procedure restores clear sight and improves their quality of life. A cornea transplant can repair sight, lessen pain, and enhance the appearance of a damaged or diseased cornea. Most cornea transplant processes are successful. But cornea transplant includes a risk of headaches, which includes rejection of the donor cornea. A healthful, clean cornea is crucial for clear sight. If your cornea is damaged because of eye disease or eye injury, it may be swollen, scarred or severely misshapen and make the vision blur. A cornea transplant can be essential if eyeglasses or special contact lenses.

Cornea is made from 3 layers of tissue. Each surgical choice makes a specialty of a selected layer or layers. Penetrating keratoplasty is likewise known as complete thickness cornea transplantation. Developed over a hundred years ago, the current model of this surgical procedure maintains to assist lots of human beings every year. In this system, your general practitioner makes use of a small round blade to cast off the center part of the damaged cornea and replaces it with a healthful same-shaped donor cornea. Deep anterior lamellar keratoplasty is the innermost layer of your cornea is healthful, however the center and outer layers are damaged, and your general practitioner can also additionally carry out a partial thickness cornea transplant. This system is likewise called deep anterior lamellar keratoplasty. During this surgical procedure, your general practitioner takes off the center and outer layers of your cornea and replaces them with healthful corneal tissue. Endothelial keratoplasty - This process can also additionally assist if the innermost layer of your cornea, the endothelium, is damaged. This thin layer of endothelial tissue is known as Descemet’s membrane. Surgeons carry out different kinds of endothelial keratoplasty surgeries: Descemet stripping automatic endothelial keratoplasty (DSAEK) and Descemet membrane endothelial keratoplasty (DMEK).

There are 3 surgical alternatives for cornea transplant. The technique your general practitioner chooses relies upon the reason of the damage to the cornea, the state of your cornea, and your precise needs. In a few cases, a cornea transplant won't enhance your vision, and your general practitioner can also additionally suggest against to surgical procedure. Regardless of the kind of transplant you receive, your new cornea will come from a deceased human organ donor. Every donor cornea undergoes through testing out to make certain it's for transplant. Each process takes off the damaged endothelial tissue and replaces it with healthful donor tissue. Unlike the alternative keratoplasty processes, fewer or no stitches are required with the endothelial keratoplasty process. Instead, an air bubble is used to maintain the donor cornea in position. To increase the chance of success, you may be advised to place yourself face-up for some days after the surgical procedure so the bubble can maintain the corneal tissue in place. The major difference among DSAEK and DMEK is the thickness of the donor cornea - DSAEK is thicker, and DMEK is thinner. Your general practitioner will determine which sort of transplant is more suitable in your particular eye condition. Certain conditions can have an effect on the readability of your cornea and keep you at more danger of corneal failure. These consist of Scarring from infections, which includes eye herpes or fungal keratitis, Scarring from trichiasis, when eyelashes develop inwardly, closer to the eye, and rub in opposition to the cornea, Hereditary situations which includes Fuchs’ dystrophy, Eye sicknesses which includes advanced keratoconus, Thinning of the cornea and abnormal corneal shape (which includes with keratoconus), Rare headaches from LASIK surgical procedure, Chemical burns of the cornea or damage from an eye fixed injury, Excessive swelling (edema) of the cornea, Graft rejection following a preceding corneal transplant. Corneal failure because of cataract surgical procedure headaches.

Correspondence to: Nawal Oubazz Y, Department of Ophthalmology, University of California, San Diego, USA, Email: nawaly@bazz.edu
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