



A Review of Corneal Transplantation

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Abstract

Corneal transplantation, also known as keratoplasty, is a surgical procedure in which a damaged or diseased cornea is replaced with a healthy cornea from a donor. This procedure is performed to restore vision in patients who have suffered corneal damage due to various reasons such as infection, a

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srgi lte hniq e se l e en s n the t p e f rae l trnsplntati n being p erf mae l.

D ring p r e l re, the l i m g e l rae s is rem e l rst. A ir l r in isi n is m g e in the enter f the l n r rae t m t h the si e f the re ient s rae [7]. e l n r rae is then p l e l at the re ient s e e n l s t re l i n t p l e . n s DA p r e l re, n l the l i s e s e l r l i m g e l ter l s ers f the rae s re rem e l sing m i r ker t m e r s fem t se n l s ser. e l n r rae is then s t re l at the re ient s e e. D ring n E p r e l re, the l i s e s e l r l i m g e l e n l the l l s er is rem e l, n l the l n r e n l the l l gr s is insert e l thr gh s m l l in isi n in the rae s sing s p e i l e l instr m ent. e gr s is then p siti n e l er the Des enet s m emb r n e n l ge n t l p she l i n t p l e [8].

Conclusion

Corneal transplantation has a high success rate, with most patients achieving improved vision and quality of life. However, despite the success of the procedure, there are still factors, including the infection risk [9], that affect the success of corneal transplantation and the overall health of the patient. Complications such as graft rejection, infection, and glaucoma remain serious concerns. The risk of rejection

• Deep anterior lamellar keratoplasty (DALK): In this technique, the diseased anterior layers of the cornea are removed and replaced with a donor cornea. The recipient's healthy endothelial layer is preserved, reducing the risk of rejection [5].

• Endothelial keratoplasty (EK): This technique involves the replacement of only the diseased endothelial layer of the cornea with a donor graft. It is further classified into two types: Descemet's stripping automated endothelial keratoplasty (DSAEK) and Descemet's membrane automated endothelial keratoplasty (DMEK) [6].

Surgical technique

Corneal transplantation is typically performed under local anesthesia, with general anesthesia being reserved for cases where

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