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Title of Thesis: Transplantation of Ex-Vivo Expanded Epithelial Stem Cells in Limbal Stem Cell Deficiency
(Laboratory/Clinical Prospective Interventional Non-Controlled Nonrandomized Study)

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Abstract :

Limbal stem-cell deficiency can be congenital or acquired; it can also be partial or total. Treatment options include: conjunctival-limbal autografts, keratolimbal lamellar allograft, and living-related conjunctival-limbal allografts. A novel method of transplanting limbal stem cells is via ex-vivo expansion of limbal stem cells; with the advantages of: a smaller limbal biopsy, reduced risk of precipitating stem cell failure in the donor eye, and allowing the option of taking a further biopsy if required.

Keywords:

Cornea; Limbal; Stem cell; Ex-vivo expansion.