

Management of Traumatic Corneal Tissue Loss

Authors: Grazia Pertile, Barbara Parolini

Advantages:

Some trauma cases may present with corneal tissue loss. In those cases, a simple corneal suture, while may be used as emergency treatment, is not adequate to restore anatomy and function. The use of a scleral patch to replace the lost corneal tissue allows to perform a corneal transplantation. If necessary, this can be preceded by a temporary corneal prosthesis in order to perform surgical maneuvers in the posterior segment in complex trauma cases.

Methods:

A patch of scleral tissue may be tailored cut and sutured to the cornea in order to fill the area of corneal loss. Afterwards a temporary corneal prosthesis or a corneal graft can be sutured to the new hosting bed.

Effectiveness / Safety:

This technique is effective and safe and allows good intraoperative visualization for complex surgical maneuvers and corneal transplantation.