

# **Fibrin glue-assisted lamellar keratoplasty for the treatment of corneal ulcer. [Chinese]**

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## **Abstract:**

Objective: To investigate the feasibility of fibrin glue-assisted sutureless lamellar keratoplasty (LK) in patients with corneal ulcer. Methods: Noncomparative interventional case series. In 21 eyes of 21 patients with Terrien's marginal degeneration (TMD) or corneal ulcer after trauma, sutureless lamellar keratoplasty (LK) using fibrin glue was performed. Postoperatively, the graft status, graft clarity, the visual prognosis and postoperative complications were recorded. Results: There were 16 cases suffered with Terrien's marginal degeneration (TMD) and 5 cases with corneal ulcer after foreign body removed. All the corneal ulcers were successfully healed after the procedure, the operative complications included corneal perforation during operation in 1 case, recurrence of TMD in 1 case and graft opacity in 2 cases. There was no graft dislocation, hydrops between graft and recipient interface, secondary infection and graft rejection after surgery, 19 cases had improved best-corrected visual acuity (BCVA) while 2 cases had poor vision acuity due to graft opacity ( $t = -2.587$ ,  $P = 0.018$ ). Conclusion: Fibrin glue-assisted sutureless LK showed excellent graft stability in all patients. Copyright © 2010 by the Chinese Medical Association.