Application of medical fibrin glue and stitch in pterygium excision: A meta-analysis. [Chinese]

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Abstract:

BACKGROUND: Currently, in pterygium excision combined with limbal epithelial transplantation, there were still some controversies about whether the medical fibrin glue could instead of stitch fixing autologous conjunctival graft. OBJECTIVE: To compare the therapeutic effect of medical fibrin glue and stitch in pterygium excision combined with limbal epithelial transplantation using Meta analysis. METHODS: The randomized controlled trials about the therapeutic effect of medical fibrin glue versus stitch in pterygium excision combined with limbal epithelial transplantation were reviewed from PubMed database, CNKI full-text database, Chinese Biomedical Literature Database, VIP database and Wanfang database from database creation to June 2015. The operative time, complications and recurrence rate of these two groups were analyzed using Meta. RESULTS AND CONCLUSION: A total of 14 randomized controlled trials, and 879 patients were enrolled. Meta-analysis results showed that the operative time, incidence of postoperative complications, the

suture group [MD=-15.58, 95%CI (-18.96, -12.21), P < 0.000 01]; [OR=0.39, 95%CI (0.19, 0.68),

relapse rate after six months and one-year in the fibrin glue group were lower than those in the

P=0.02]; [OR=0.28, 95%CI (0.12, 0.65), P=0.003]; [OR=0.23, 95%CI (0.07, 0.76), P=0.02]. These

results demonstrate that the application of fibrin glue in pterygium excision combined with limbal

stem cell transplantation can promote graft attachment, shorten the operation time, reduce

postoperative complications and reduce the postoperative recurrence of pterygium.

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