Application of biomedical fibrin glue in pterygium excision combined with limbal stem cell transplantation. [Chinese]

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Publication Date: 2011

Abstract:

AIM: To estimate the therapeutic effects of pterygium excision combined with corneal limbal stem cells transplantation using biomedical fibrin glue in the treatment of pterygium. METHODS: In all the 59 cases(60 eyes), group 1:34 eyes received pterygium resection + limbal stem cell transplantation using biomedical fibrin glue. Group 2:26 eyes received pterygium resection + limbal stem cell transplantation without biomedical fibrin glue. RESULTS: Group 1 needed shorter time in the surgery than the group 2. Meanwhile the patients who received pterygium resection + limbal stem cell transplant using biomedical fibrin glue had less postoperative symptoms of stimulation. Limbal stem cell transplantation adhesion of 5 eyes(19%) was poor and sclera was exposed in group 2. Graft in fibrin glue group healed well, no significant local conjunctival scarring formed; the control group suffered from varying degrees of conjunctival scarring by suture irritation. After 6 months' follow-up, both groups had no pterygium recurrence. CONCLUSION: The patients who received pterygium resection + limbal stem cell transplantation using biomedical fibrin glue have lower recurrent rate and less post-operative symptoms of stimulation. Using biomedical fibrin glue is an effective method to cope with pterygium.