

Application of fibrin glue with bandage contact lens in pterygium surgery. [Chinese]

Authors: Liu W., Zhang Y.-P., Xie M.-F., Liu Y.

Publication Date: 2014

Abstract:

AIM: To explore the efficacy of fibrin glue with bandage contact lens for pain relief after pterygium surgery performed with limbal autograft transplantation. **METHODS:** A prospective clinical trial was carried out in 52 patients (72 eyes) operated for primary nasal pterygium. All patients were randomly divided into the fibrin glue with bandage contact lens group (experimental group, 28 cases, 38 eyes) and suture group (control group, 24 cases, 34 eyes). Autologous limbal graft taken from the superotemporal limbus was used to cover the sclera after pterygium excision under local anesthesia with 20 g/L lidocaine. In experimental group, the transplant was attached to the sclera with fibrin tissue adhesive and in control group with 10-0 Virgin silk sutures. Experimental group wore bandage contact lens after surgery while the control group did not. The degree of pain after surgery was evaluated at 1, 2, 3, 5 and 7 d after surgery. Follow-up was 6mo, matching degree of graft and complication such as infection, relapse, implant healing badness and subconjunctival cyst were mainly observed and recorded. **RESULTS:** The pain index scores of the experimental group were significantly less than those of control group (all $P=0.000$). In observation period, all conjunctival autografts in both groups were successfully attached and were intact without falling off, dissolution or recurrence and there were no complications such as infection, relapse, implant healing badness and subconjunctival cyst. **CONCLUSION:** Fibrin glue with bandage contact lens could significantly release pain response after pterygium excision surgery.