

# Clinical observation on fibrin glue application during pterygium surgery. [Chinese]

Authors: Lei Q.-F., Cai W.

Publication Date: 2015

## Abstract:

**AIM:** To observe the clinical results of pterygium excision combined with conjunctival autograft transplantation using fibrin glue. **METHODS:** A total of 60 patients (60 eyes) with primary nasal pterygium were randomly divided into two groups: the fibrin glue group (experimental group, 30 eyes) and suture group (control group, 30 eyes). All patients underwent pterygium excision combined with conjunctival autograft transplantation. In the experimental group autograft was attached to sclera with fibrin glue while in control group 10-0 polyamide was used. The patients were followed up for 6mo. The time of operation, post operation comfort, complications and recurrence were evaluated. **RESULTS:** The average surgical time was 24.5 $\pm$ 6.5min with fibrin glue group while 35.2 $\pm$ 5.4min with suture group, with statistically significant difference between two groups ( $P<0.05$ ). Pain and foreign body sensation was significantly less with fibrin glue group than that in the control group ( $P<0.05$ ). No severe postoperative complication occurred both in two groups. The incidence of subconjunctival hemorrhage in the experimental group was lower than that in the control group ( $P<0.05$ ). 1 case (3%) of fibrin glue group, 3 cases (10%) of suture group had recurrence at the end of follow up 6mo. **CONCLUSION:** It's a safe and effective way to attach conjunctival autograft during pterygium surgery by fibrin glue. It can reduce surgical time, postoperative complications and relieve postoperative discomfort.

Copyright ©, 2015, International Journal of Ophthalmology (c/o Editorial Office). All right reserved.