

# **Comparison of fibrin sealant and sutures for conjunctival autograft fixation in pterygium surgery: One-year follow-up.**

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## **Abstract:**

**Aims:** To evaluate the efficacy and safety of fibrin sealant in conjunctival autograft fixation in pterygium surgery. **Methods:** Prospective, comparative, interventional case series. 40 eyes of 40 patients with nasal primary pterygium, 24 male and 16 female, were enrolled. The patients were assigned to two groups and each contained 12 male and 8 female based on the pterygium area encroaching onto the cornea. In one group the conjunctival autograft was attached to the sclera with fibrin sealant and the other group with nylon 10-0 sutures. All the patients were followed up postoperatively on days 1, 3, 7 and 14 then at months 1, 2, 6 and 12. The main outcome measures included operating time, postoperative symptoms, graft success, recurrence rate and complications. **Results:** The average operating time was significantly shorter ( $p < 0.001$ ) in the fibrin sealant group and fewer postoperative symptom complaints were received as well. By the end of 1-year follow-up, the recurrence rate was 5% in the fibrin sealant group and 10% in the suture group ( $p = 1.000$ ), and there was no statistically significant difference in complications ( $p > 0.05$ ) between the two groups. **Conclusions:** It is safe and effective to use fibrin sealant for conjunctival autograft fixation. This method causes much fewer postoperative symptoms and shortens surgery time significantly, and the long-term results are also favorable. Copyright © 2008 S. Karger AG.