

## Short Communication

# Slipknot: An Ameliorated Technique for Pterygium Conjunctival Autograft

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## Introduction

Pterygia are wing-shaped conjunctival encroachments onto the cornea [1]. Conjunctival autograft adhesion with fibrin glue has gained rapid popularity in pterygium excision surgery [2]. Suture technique is another major option to fix the graft. An absorbable suture with slipknot was used to fix the grafts of pterygium. A week after the surgery, most of the stitches had disintegrated and fallen out. This easy technique reduces the postoperative pain and the conjunctival reaction in the early postoperative period. It enables the surgeon to eliminate the need for postoperative suture removal, and relieve the patient's anxiety of removing stitches during the review.

## Surgical Technique

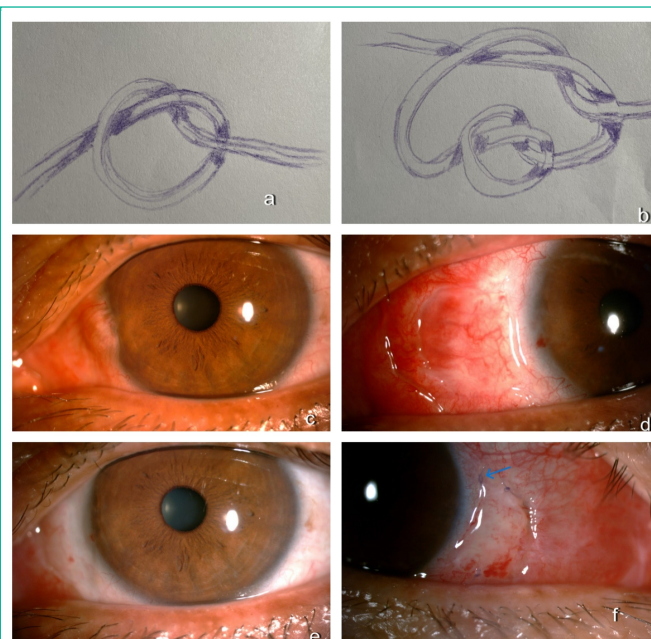
Pterygium excision and conjunctival autograft can be performed as routinely [3]. 8-0 Coated VICRYL (Polyglactin 910, Ethicon LLC) sutures were used to fixate the graft on the scleral bed. Tie a knot on the receiving site (Figure 1a), and double knotting (Figure 1b). It was important to knot it tightly. After about a week, most of the conjunctival sutures were disintegrated and fallen out. The graft conjunctiva healed well (Figure 1c,d & e). The knot was delayed in shedding when the suture had attached the scleral tissue (Figure 1f). Bandage contact lenses were used and removed after a week. Follow-up examinations were routinely performed at 1 week and 1 month after surgery.

This method of ameliorated technique, to the knowledge of the authors, never been reported before. It makes surgery and post-operative review much easier.

## Abstract

Conjunctival autograft was now the best method in pterygium operation. An absorbable suture with slipknot was used to fix the grafts of pterygium. A week after the surgery, most of the stitches had disintegrated and fallen out. This easy technique reduces the postoperative pain and the conjunctival reaction in the early postoperative period. It enables the surgeon to eliminate the need for postoperative suture removal, and relieve the patient's anxiety of removing stitches during the review.

**Keywords:** Pterygium surgery; Conjunctival graft; Slipknot; Sutures



**Figure 1:** Tie a knot (a) and double knotting (b). Pre-operation (c). All of the conjunctival sutures were fallen out 12 days after surgery (d). Slight conjunctival reaction 4 weeks after surgery (e). The knot (blue arrow, 7 days after surgery) was delayed in shedding, when the suture has attached the scleral tissue in another case (f).

## Author Statements

### Disclosure

The authors report no conflicts of interest in this work.

## References

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