

Comparison of suture, fibrin glue and autologous blood technique for conjunctival autograft fixation in pterygium excision

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ABSTRACT

Objectives: The most effective treatment of pterygium is surgical excision and covering the bare sclera with conjunctival autograft. Various methods are used for grafting such as suture, fibrin glue or autologous blood. The objective of this study was to compare surgical outcomes of these three methods. Duration of these study are pterygium excision done in our hospital from January 2023 until February 2024. **Methods:** A retrospective study consisting of 74 eyes with primary pterygium underwent pterygium surgery and conjunctival autologous graft was undertaken. The methods were divided into suture (33 eyes), fibrin glue (23 eyes) and autologous blood (18 eyes). The study includes the mean operative time and postoperative one week review to see if the graft is intact. **Results:** The mean operative time for suture were 57.70 min, for fibrin glue were 26.57 min and autologous blood was 50.44 min. For graft intact postoperatively one week results, suture scored 100%, fibrin glue 70% and autologous blood scored 89% **Conclusions:** The operating time is the least in fibrin glue, followed by autologous blood and suture. Suture conjunctival autograft showed the best result while fibrin glue and autologous blood is comparable. Autologous blood method is recommended in view of shorten operation time and great autologous graft intact rate. It is also cheap and easily available.