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COMPARISON OF LIMBAL VS LAMELLAR AUTOGRAFT FOR PTERYGIUM SURGERY. M. Assouline, C. Favard, J. Moossavi, F. Mayer, E. Frau, Y. Pouliquen

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Purpose: To investigate two newly developed surgical techniques for the reconstruction of the limbal area following removal of a pterygium in terms of recurrence rate, and corneal topographical changes.

Methods: We prospectively compared 53 consecutive cases of lamellar autokeratoplasty (LAKP) to 45 consecutive cases of limbal autotransplantation (LAT) associated to the transposition of superior bulbar conjunctiva following excision of a pterygium. Clinical outcome variables including best corrected visual acuity, refraction and recurrence of pterygium were analyzed. In addition, changes in the corneal topography were monitored using the TMS1 system (Tomey, France).

Results: True recurrence of pterygium was observed in one case of the LAKP, but not in the LAT group. In addition, 5 cases of the LAKP group had marked induced astigmatism (8 to 13 diopters), associated to a progressive ectasia of the donor site. In the LAT group, postoperative astigmatism was not significantly different from preoperative values.

Conclusion: LAT may be as effective as LAKP to prevent recurrences of pterygium and may avoid the risk for significant induced astigmatism.

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EFFECT OF INTRAOPERATIVE MITOMYCIN C IN RECURRENT PTERIGIUM: LONG TERM FOLLOW-UP

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Purpose: The aim of this study was to evaluate the long-term results of intraoperative administration of mitomycin C in the surgical treatment of patients with one recurrence of prevolum

patients with one recurrence of pterygium. Methods: 45 white patients with one recurrence of pterygium were included in the study. The "bare sclera technique" was performed and a sterile sponge soaked in a 4% mitomycin C solution was placed intraoperatively in the episcleral space for three minutes. A sex and age matched control group was used; the control group underwent only surgical excision. Recurrences were analyzed by the χ^2 test and the method of Kaplan Meyer (life-table analysis); the difference between survival curves was tested by the log-rank test. The χ^2 test with Yates' correction or Fishers' exact test were used to analyze the difference in complications and side effects between the two

Results: 6 recurrences (12.5%) were observed in the mitomycin C treated patients and 16 (35.6%) in the control patients (P=0.027) after a mean postoperative follow-up of 30.55 ± 13.70 months. The 24- and 48-month lifetable success rates were 89% and 83% in the mitomycin C treated group and 66% and 63% in the control group, respectively (P=0.022). No severe side effects was checked during follow-up. 7 mitomycin C treated eyes (15.5%) manifested a superficial punctate keratitis in the early postoperative period (P=0.018).

Conclusion:Intraoperative administration of mitomycin C was useful in perpendict the processor to a few resurrent extensive curricul ovalision.

Conclusion:Intraoperative administration of mitomycin C was useful in improving the success rate after recurrent pterygium surgical excision. No severe sides effects, described for postoperative instillation of mitomycin C, was found in intraoperative administration.