

Use of fibrin glue in penetrating keratoplasty. [Spanish]

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Abstract:

Objective: To determine safety and efficacy of the use of fibrin glue in penetrating keratoplasty (PKP) compared with the standard technique. Material and methods: Candidates to PKP were captured, dividing them in 2 groups of 10 patients each; in the first group, PKP using 8 nylon 10-0 sutures and fibrin glue was performed, while in the other, standard keratoplasty with 16 sutures was performed, registering surgical time in each case. Best corrected visual acuity and queratometric astigmatism were measured at 3 and 6 months. Results: Average surgical time for the fibrin glue group was 36.1. minutes vs. 55.1. minutes for the control group ($P \leq .0001$). Average queratometric astigmatism at 3. m was -3.69. D for the fibrin glue group vs. -4.75. D for the standard keratoplasty group ($P = .245$) and -2.88. D vs. -3.44. D at 6. m ($P = .246$). Average best corrected visual acuity was LogMAR 0.37 for the fibrin glue group vs. LogMAR 0.39 at 3. m ($P = .822$) and LogMAR 0.20 vs. LogMAR 0.25 at 6. m ($P = .334$). There were no complications related to the surgical procedure in any group. Conclusions: PKP with 8 sutures and fibrin glue seems to be a safe technique which requires less surgical time and allows for a faster visual recovery compared to the standard technique.

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