Delayed vasovasostomy: Experimental study using fibrin glue.

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Publication Date: 1997

Abstract:

We compared delayed vasectomy reversals performed in rats using fibrin glue combined with 3 transmural sutures or a conventional microsurgical technique. Forty Sprague-Dawley rats underwent bilateral vasectomy followed 2 weeks later by bilateral vasovasostomy using fibrin glue or a conventional microsurgical suture technique. Our protocol evaluated fertility rates after a 3-week mating period, sperm granuloma formation, histological changes at the anastomotic site, longitudinal tensile strength and mean testicular weight. The fibrin glue technique required significantly reduced operative time ($p < 0.0005$) and showed statistically lower tensile strength performance ($p < 0.0005$). All other parameters showed no statistical difference between the two techniques. Fibrin-glued vasovasostomy is efficient in a delayed protocol and deserves further clinical experience.