

Effects of fibrin glue on postsurgical adhesions after uterine or ovarian surgery in rabbits.

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Abstract:

Objective: To evaluate the prophylaxis with fibrin glue on postoperative adhesions following uterine or ovarian surgery in rabbits. Study Design: The uterine horns of 10 rabbits were exteriorized and electrocauterized by monopolar coagulation. Fibrin glue was applied to one uterine horn and the other was left untreated as a control (Experiment 1). Multiple ovulation was induced in 12 rabbits with hCG, and wedge resection was performed on both ovaries of each animal. One ovary was treated with fibrin glue and the other was untreated as a control (Experiment 2). Second-look laparotomy was performed to assess adhesion formation 2 weeks after the initial operation. Results: The use of fibrin glue resulted in significant decrease in postoperative adhesions compared with the control side, in the uterine horns and the ovaries ($p < 0.02$ and $p < 0.01$, respectively). Conclusion: Fibrin glue was useful in preventing postoperative adhesions of the reproductive organs in rabbits.