

Use of fibrin sealant for reproductive surgery: A randomized study in the rabbit model.

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Abstract:

The present study was undertaken to compare adhesion formation and reproductive outcome after reproductive surgery with or without the application of fibrin sealant. At laparotomy, the ovaries and uterine horns of 20 rabbits were longitudinally incised on the antimesenteric side using a monopolar microneedle. At random, one ovary and the ipsilateral uterine horn were covered with fibrin sealant, while those on the contralateral side were left uncovered without application of sutures. The rabbits were then mated, and 2 weeks later a second-look laparotomy was performed by a blinded observer. No statistically significant differences were found in postoperative adhesions, number of corpora lutea in each ovary, number of embryos in the ipsilateral uterine horn, and nidation index for each side. Fibrin sealant for conservative surgery does not appear to significantly affect either postoperative adhesion formation or reproductive outcome.