

Morphology and fertility after re-anastomosis of the rabbit Fallopian tube with fibrin glue.

Authors: Gauwerky J.F.H., Kubli F., Forssmann W.G.

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Abstract:

Morphology and fertility were studied in 20 female New Zealand White rabbits after re-anastomosis of the Fallopian tube with fibrin glue and conventional microsurgical techniques. All oviducts were patent postoperatively. No intraperitoneal adhesions were observed. There were no significant differences with regard to the number of corpora lutea, implantations and the nidation index. Morphological studies demonstrated a normal fold pattern and ciliation at the side of anastomosis in the sealed oviducts as well as in the sutured oviducts. No intraluminal fibrin deposits were found. For re-anastomosis of the Fallopian tube with fibrin glue, splinting is necessary. In some instances this may be related to a mucosal trauma. However, under optimal conditions the use of fibrin glue is equivalent to conventional microsurgical anastomosis of the oviduct. For tubocornual, ampullary-ampullary and isthmic-ampullary anastomoses with luminal disparity, fibrin glue seems to be inappropriate.