

# **Effects of the use of fibrin glue around the colonic anastomosis of the rat.**

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## **Abstract:**

**BACKGROUND:** This study was aimed at examining whether the addition of fibrin glue to a sutured colonic anastomosis improves its healing or not.

**METHODS:** We studied the effect of adding fibrin glue on a sutured colonic anastomosis. Thirty-six Wistar rats were randomized into two groups of 18 rats each. A sutured anastomosis was performed in all rats. Fibrin glue was applied around the anastomosis of the rats of group B. Rats were sacrificed on the eighth postoperative day.

**RESULTS:** The rate of anastomotic leakage was found not to be significantly different between the two groups. The mean bursting pressure of the colonic anastomoses was significantly higher in group B (fibrin-treated) than in group A.

**CONCLUSION:** Fibrin glue application around a sutured anastomosis provides a safer anastomosis which is stronger than the sutured one.