

# **Adhesion-prevention effects of fibrin sealants after laparoscopic myomectomy as determined by second-look laparoscopy: A prospective, randomized, controlled study.**

Authors: Takeuchi H., Kitade M., Kikuchi I., Shimanuki H., Kumakiri J., Kinoshita K.

Publication Date: 2005

## **Abstract:**

**OBJECTIVE:** To examine the adhesion prevention effects of 2 types of fibrin sealant after laparoscopic myomectomy (LM). **STUDY DESIGN:** A prospective, randomized study (Canadian Task force 1) was conducted at a University- affiliated hospital. A total of 91 patients showing a minimal myoma > 5 cm, excluding pedunculated myomas, underwent LM alone: 32 patients in the control group, 29 in the fibrin gel group and 30 patients in the fibrin sheet group. After LM, postoperative adhesions were evaluated by second-look laparoscopy. The frequency of postoperative adhesions was the main outcome. **RESULTS:** The frequency of postoperative adhesions of the uterus was significantly lower ( $p < 0.05$ ) in the fibrin gel group, with 20/32 (62.5%) in the control group, 10/29 (34.5%) in the fibrin gel group and 20/30 (67.7%) in the fibrin sheet group. Although no significant differences were found in the incidence of de novo adnexal adhesions, the lowest rate was found in the fibrin gel group, with 4/32 patients (12.5%) in the control group, 2/29 patients (6.8%) in the fibrin gel group and 5/30 patients (16.7%) in the fibrin sheet group. No bilateral adnexal adhesions were observed in the 3 groups. **CONCLUSION:** After LM for myomas as large as  $\geq 5$  cm, postoperative adhesions were observed in  $\geq 50\%$  of patients. The use of fibrin gel after LM is recommended. © Journal of Reproductive Medicine, Inc.