

## **A Randomized Trial of Laparoscopic versus Open Surgery for colorectal cancer in operation related complications**

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**BACKGROUND:**Laparoscopic colorectal cancer surgery has been widely used in the surgical treatment of the colorectal cancer. The application of laparoscopic technique in rectal cancer, however, did not receive the recognition from the guidelines.

**HYPOTHESIS:** This trial proves that laparoscopic rectal surgery has no significant difference in postoperative complications comparing with open surgery.

**METHODS:**From 2008 to 2010, 324 cases of patients with rectal cancer were recruited. They were randomly divided into 2 groups: open surgery and laparoscopic surgery. Then we analyzed the incidence of postoperative complications of each group.

**RESULTS:**Among the 324 patients, total incidence of postoperative complications was 3.14%: 2.42% (open surgery: laparoscopic surgery). Incidences of anastomotic fistula were 1.9% : 0, the incidences of postoperative intestinal obstruction were 1.2% : 1.2%; the incidences of postoperative hemorrhage were 0: 0.6%; and the incidences of incision planting were 0:0.6%.