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**1** Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 54146

Manuscript Type: ORIGINAL ARTICLE

*Retrospective Cohort Study*

Low ligation has a lower anastomotic leakage rate after rectal cancer surgery

Chen JN *et al.* Rectal cancer ligation level

Jia-Nan Chen, Zheng Liu, Zhi-Jie Wang, Fu-Qiang Zhao, Fang-Ze Wei, Shi-Wen Mei, Hai-Yu Shen, Juan Li, Wei Pei, Zheng Wang, Jun Yu, Qian Liu

**Abstract**

BACKGROUND

For laparoscopic rectal cancer surgery, the inferior mesenteric artery (IMA) can be ligated at its origin from the aorta [high ligation (HL)] or distally to the origin of the left colic artery [low ligation (LL)]. Whether different ligation level is related to different postoperative complications, operation time, and lymph node yield remains controversial. Therefore, we designed this study to determine the effects of different ligation levels in rectal cancer surgery.

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## Anastomotic leakage in rectal cancer surgery: The role of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4663382>

Nov 27, 2015 · Core tip: **Anastomotic leakage after** anterior resection for **rectal cancer** is still common. Several preoperative risk factors may inform the surgeon of the **leakage** risk. The surgeon might choose to perform a diverting stoma to mitigate this risk, or to construct an end colostomy and thus avoid an anastomosis altogether.

**Cited by:** 6

**Author:** Martin Rutegård, Jörgen Rutegård

**Publish Year:** 2015

## Risk Factors for Anastomotic Leakage After Anterior ...

<https://jamanetwork.com/journals/jamasurgery/fullarticle/1358216> ▾

Jan 01, 2013 · Anastomotic leak after rectal cancer surgery has been reported to occur in **5% to 20% of patients**. 4-8 Apart from the immediate clinical consequences, such as intra-abdominal or pelvic abscess, peritonitis, colocutaneous fistula, sepsis, longer hospital stay, and increased in-hospital morbidity and mortality, 9,10 AL also carries long-term effects, including impaired pelvic ...

**Cited by:** 252

**Author:** Celeste Y. Kang, Wissam J. Halabi, Ob...

**Publish Year:** 2013

## Risk Factors for Anastomotic Leakage after Laparoscopic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2998006>

The **anastomotic leakage rate after rectal** resection **has** been reported to be approximately 2.5-21 percent, but most results were associated with open **surgery**. The aim of this study was to identify risk factors and their relationship to the experience of the surgeon for **anastomotic leakage after laparoscopic rectal** resection.

**Cited by:** 29

**Author:** Dong Hyun Choi, Jae Kwan Hwang, Yo...

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**Author:** Dong Hyun Choi, Jae Kwan Hwang, Yo...

**Publish Year:** 2010

## [Risk and early predictive factors of anastomotic leakage ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6825709>

Nov 02, 2019 · Twenty-five patients (24.7%) had rectosigmoid (RS) cancer, 63 (62.4%) had upper rectal (Ra) cancer, and the remaining 13 (**12.9%**) had lower rectal (Rb) cancer. Anastomotic leakage Among the patients, symptomatic AL occurred in 13 patients (12.9%), of ...

**Author:** Masahiro Fukada, Nobuhisa Matsu...

**Publish Year:** 2019

## [Risk Factors for Anastomotic Leakage After Anterior ...](#)

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**Author:** Celeste Y. Kang, Wissam J. Halabi, Obai...

**Publish Year:** 2013

## Analysis of anastomotic leakage after rectal surgery: A ...

<https://www.sciencedirect.com/science/article/pii/S2049080115000497>