WILEY | Hindawi

Retraction

Retracted: Efficacy and Safety of Radical Resection of Rectal *Cancer* Combined with Selective Lateral Lymph Node Dissection in the Treatment of Low Rectal *Cancer* under Meta-analysis

Contrast Media & Molecular Imaging

This article has been retracted by Hindawi following an investigation undertaken by the publisher [1]. This investigation has uncovered evidence of one or more of the following indicators of systematic manipulation of the publication process:

(1) Discrepancies in scope
(2) Discrepancies in the description of the research reported
(3) Discrepancies between the availability of data and the research described
(4) Inappropriate citations
(5) Incoherent, meaningless and/or irrelevant content included in the article
(6) Peer-review manipulation

The presence of these indicators undermines our confidence in the integrity of the article's content and we cannot, therefore, vouch for its reliability. Please note that this notice is intended solely to alert readers that the content of this article is unreliable. We have not investigated whether authors were aware of or involved in the systematic manipulation of the publication process.

Wiley and Hindawi regrets that the usual quality checks did not identify these issues before publication and have since put additional measures in place to safeguard research integrity.

We wish to credit our own Research Integrity and Research Publishing teams and anonymous and named external researchers and research integrity experts for contributing to this investigation.

The corresponding author, as the representative of all authors, has been given the opportunity to register their agreement or disagreement to this retraction. We have kept a record of any response received.

References

[1] F. Hou, Z. Yu, H. Chen, and C. Chen, "Efficacy and Safety of Radical Resection of Rectal *Cancer* Combined with Selective Lateral Lymph Node Dissection in the Treatment of Low Rectal *Cancer* under Meta-analysis," *Contrast Media & Molecular Imaging*, vol. 2022, Article ID 8456677, 10 pages, 2022.

WILEY | Hindawi

Research Article

Efficacy and Safety of Radical Resection of Rectal *Cancer* Combined with Selective Lateral Lymph Node Dissection in the Treatment of Low Rectal *Cancer* under Meta-analysis

Futao Hou, Zhige Yu, Hongxi Chen, and Chaowu Chen iD

Department of Gastrointestinal Surgery,
Hunan Provincial People's Hospital (the First Affiliated Hospital of Hunan Normal University), Changsha 410005, China

Correspondence should be addressed to Chaowu Chen; 15000920619@xs.hnit.edu.cn

Rectal cancer mostly occurs in the middle and low position in China, and many anatomical evidence has confirmed that Lateral Lymph Node Metastasis (LLNM) exists in middle and low rectal cancer. Laparoscopic surgery can penetrate into the pelvic cavity and magnify and narrow the visual field, which is helpful for lymph node dissection and vascular nerve protection, while it has minimally invasive characteristics and is considered to be more suitable for LLND. Relevant articles published from January 2000 to May 2022 are searched using "Rectal cancer, Lateral lymph node dissection, Radical resection of rectal cancer, Low rectal cancer, Laparoscopic therapy, Treatment of rectal cancer" as test terms, analyzed and assessed using Rev Man 5.3 software and Stata software to assess the risk bias of included references, and heterogeneity among each study is evaluated using Q test and heterogeneity (I2). The experimental results show that there is no heterogeneity among the studies (I2 = 8.46%). The heterogeneity of lymphatic metastasis in the included literature is evaluated, and the results show that there is heterogeneity between the studies (I2 = 52.06%).

1. Introduction

According to a global cancer statistics report published by Ca in February 2021, colorectal cancer mortality and morbidity rank second and third among all cancers, respectively, and have an increasing trend year by year. In China, rectal cancer mostly occurs in middle and low rectal cancer, and a large number of anatomical evidence has confirmed the presence of lateral lymph node metastasis (LLNM) in middle and low rectal cancer [1]. According to two Japanese multicenter studies, the incidence of LLNM in low rectal cancer is about 13.3% to 20.1%, and LLNM is indeed one of the main causes of local recurrence in advanced low rectal cancer. However, there has been controversy regarding the treatment modalities for LLNM. In 1982, a British professor first proposed the concept of total mesorectal excision (TME). TME can reduce the local recurrence rate after rectal cancer surgery. Subsequently,

radical surgery for rectal cancer is gradually completed based on this principle. Currently, Western guidelines for the treatment of rectal cancer also tend to combine neoadjuvant chemoradiotherapy (nCRT) [2]. The main reason may be that mesorectal excision (ME) cannot meet the requirements of radical resection for rectal cancer with positive lateral lymph nodes in the lateral space (internal iliac artery and its external branches) and intermediate space (internal iliac artery and its two sides, anterior branches, pelvic wall fascia), and can only completely remove mesenteric lymph nodes in the medial space (posterior pelvic visceral fascia and anterior Denonvilliers fascia) [3]. Therefore, lateral lymph node dissection (LLND) is necessary.

It is innovatively included in the current domestic and foreign literature research on radical resection of rectal cancer combined with LLND in the treatment of low rectal cancer. The meta-analysis system is used to evaluate the efficacy of combined therapy for low rectal cancer, in order

to evaluate the efficacy and safety of combined therapy for low rectal cancer, and to provide evidence for clinical treatment.

The rest of this paper is organized as follows: Section 2 discusses the related work, followed by focusing on data extraction and statistical methods in Section 3. The heterogeneity evaluation and meta-analysis are discussed in Section 4. Section 5 concludes the paper with the summary.

2. Related Work

Currently, Western countries placed less emphasis on nCRT, while routine implementation of LLND is lower. The main reason is that western scholars believed that the tumor effect of LLND was uncertain and the incidence of complications was high. The development of surgery in Japan was based on anatomical studies. As early as the 1970s, LLND was started during surgery for low rectal cancer. To date, LLND has been recognized by most Japanese surgeons as a routine procedure for surgical treatment of low rectal cancer [4]. The guidelines clearly stated that when rectal tumors had lower borders below peritoneal recurrence and involved muscle, LLND should be performed even if no LLNM was found preoperatively or intraoperatively [5]. It has been shown that lymphatic drainage from the rectum could be divided into three main routes. The superior approach extended from the superior rectal artery to the inferior mesenteric artery; laterally along the middle rectal artery to the internal iliac and obturator foramina; and the descending route extended to the inguinal lymph nodes. Upper and lateral pathways were important for lymphatic spread [6–8].

The local recurrence rate in the bilateral atlanto-occipital group was significantly lower than that in the unilateral atlanto-occipital group, and the local control was better. Lateral lymph nodes such as iliac bone and obturator foramen were not within the scope of TME lymph node dissection, and patients undergoing TME surgery still had the risk of tumor lymph node metastasis. Because of its special anatomical location, the metastasis rate of pelvic lateral lymph nodes in low rectal cancer could reach 10%–25%. This route of lymph node metastasis was considered to be the cause of postoperative local recurrence in patients with rectal cancer and the reason that the local recurrence rate of low rectal cancer was higher than that of middle and upper low rectal cancer. The aim of LLND was to remove these potentially metastatic lymph nodes, thereby controlling local recurrence and even improving long-term survival [9]. Urinary function and subjective sexual function scores were not significantly different compared to the individual groups. Recent evidence from Western countries suggested that neoadjuvant chemoradiotherapy (nCRT) combined with TME might not be sufficient to treat some patients with advanced low rectal cancer, while LLND might reduce local recurrence rates. More and more scholars believed that accurate grasp of surgical indications for LLND could bring survival benefits. Moreover, some domestic scholars have also proposed individualized and selective LLND strategies.

Laparoscopic surgery could penetrate the pelvic cavity, enlarge, and narrow the visual field, and facilitate lymph node dissection and vascular neuroprotection. In addition, it had the characteristics of minimally invasive and was considered more suitable for the realization of LLND [10–12].

3. Data Extraction and Statistical Methods

The Cochrane Library, PubMed, MEDLINE, EBSCO, Science Direct, and China National Knowledge Infrastructure (CNKI) databases are searched by computer to collect domestic and foreign literature on airway stent implantation for airway stenosis [13, 14]. Relevant literature published from January 2000 to May 2022 are searched using "Rectal cancer, Lateral lymph node dissection, Radical resection of rectal cancer, Low rectal cancer, Laparoscopic therapy, Treatment of rectal cancer" as test terms, and all database searches use a combination of subject headings and free words, which are appropriately adjusted according to the specific database. The search strategy is determined by multiple presearches. Professional journals are manually searched to avoid omissions, and the subjects of searching the literature are people.

The search process uses subject headings combined with free words for multiple searches to obtain references that can be included, and then the search engine is used to trace each article [15–17]. The quality of the included articles is assessed using Rev Man 5.3 software provided by the Cochrane collaboration.

The inclusion criteria are as follows: (1) Patients undergoing low rectal cancer treatment. (2) Radical resection of rectal cancer combined with LLND is compared with non-LLND treatment. (3) CT2/3/4 or CN + disease without distant metastasis. (4) The study results contain efficacy or safety endpoints, including overall response, complete response (CR), partial response (PR), and adverse events (AE).

The exclusion criteria are as follows: (1) The sample size of the study is less than 5 patients. If the sample size is too small, there will be bias and insufficient power. (2) Prospective studies are preferred to be included in retrospective studies in order to improve the level of evidence as much as possible. Randomized controlled trials have not been included due to different outcome measures. (3) Conference abstracts, case reports, reviews, communication articles, clinical experience reports with incomplete information, and animal or cell experiments. (4) The literature lacks complete information and the data are vague or unextractable.

Literature screening and data extraction are independently performed by two professionals using a unified Microsoft Excel, cross-checked, and included in the final results, and discrepancies are resolved by discussion [18]. The main extracted data are as follows: (1) General data information of the included studies are title, first author, and publication years. (2) Basic characteristics of the study subjects are number of cases, patient age, and gender. (3) Survival time after treatment, complications, and other indicators. (4) Key elements of bias risk evaluation are randomization method, whether to implement blinding,

allocation concealment. (5) Outcome indicators and outcome measurement data such as CR, PR, and safety outcome AE.

The quality of the included articles is evaluated using the quality assessment of diagnostic accuracy studies criteria recommended by Cochrane for treatment trials. The quality of the included original literature is evaluated according to each evaluation indicator, and each study is evaluated according to "conformity," "non-conformity," and "uncertainty."

Rev Man 5.3 software and Stata software are used, odds ratio (OR) is used as the effect index for dichotomous variables, and mean difference (MD) is used as the effect index for continuous variables, and point estimates and their 95% CI are given for each effect index [19]. Heterogeneity among the included study results is analyzed by X^2 test (test level $\alpha = 0.1$), and heterogeneity is quantitatively judged in combination with I^2. If there is no statistically significant difference in heterogeneity among the study results, a fixed-effect model is used for meta-analysis. If there is a statistically significant difference in heterogeneity, a random-effect model is used for meta-analysis, and subgroup analysis is used to explore the possible source of heterogeneity. The test level of meta-analysis is set as $\alpha = 0.05$. Forest plots and Summary Receiver Operating Characteristic (SROC) curves are plotted, and asymmetric linear regression of funnel plots is plotted [20]. Funnel plots for different treatment measures are used to test for potential publication bias and sensitivity analysis are performed [21].

4. Heterogeneity Evaluation and Meta-analysis

4.1. Search Results and Basic Information of Literature. 258 articles are obtained by searching the database, 41 repeated publications are first removed, 56 articles are removed for ineligibility, and 30 articles are removed for other reasons, and the remaining 128 articles are preliminarily selected. By reading the abstracts and titles, 54 articles are excluded and 74 remained. 30 research reports and review articles are excluded, leaving 44. All remaining articles are read fully, excluding 18 articles with incorrect study types. 15 articles are excluded due to incomplete or unobtainable treatment results required. 3 articles are not human subjects, and 8 articles are finally included in the meta-analysis. Figure 1 is the flow chart of literature search. It is clearly evident from Figure 1 that it shows a flow diagram of the retrieving literature.

The basic information of the literature is extracted by reading the contents of the literature. In 8 included literature [19–21], a comparison of the two treatment methods is used, in which 831 patients are included in LLND + ME for low rectal cancer and 971 patients are included in non-LLND for low rectal cancer. In addition, among the 8 included literature, the sample size varies from 41 to 701. Eight articles describe the process of treating low rectal cancer by LLND + ME in detail, and record the changes of various indicators of patients before and after treatment, as well as

the complications and morbidity caused by LLND + ME in the treatment of low rectal cancer. The quality evaluation is performed on the 8 included literature, and the results show that 6 literature (75%) have grade A, 1 literature (12.5%) has grade B, and 1 literature (12.5%) has grade C. Table 1 shows the basic information of included literature. It is clearly evident from Table 1 that the basic characteristics of the included articles are enough.

Figure 2 shows risk bias evaluation plot for references generated by Rev Man 5.3 software. It is clearly evident from Figure 2 that the random sequence generation is in low risk of bias.

Figure 3 shows the summary chart of reference risk bias. It is clearly evident from Figure 3 that "+" indicates low risk, "−" indicates high risk, and " " indicates unclear.

4.2. Heterogeneity Evaluation Results. The heterogeneity of survival rate is evaluated in the included literature. The results show that the heterogeneity of low rectal cancer among the studies is low ($I^2 = 24.20\%$). The heterogeneity of treatment complications in the included literature is evaluated. The results show that there is no heterogeneity among the studies ($I^2 = 8.46\%$). The heterogeneity of lymphatic metastasis in the included literature is evaluated, and the results show that there is heterogeneity among the studies ($I^2 = 52.06\%$). In order to further verify whether there is heterogeneity between the data of the two examination methods, and to compare the differences in the indicators of different treatment methods, a random-effect model is required for pooled analysis.

4.3. Meta-analysis of Disease-free Survival. For 8 articles on LLND + ME combination therapy versus non-LLND for low rectal cancer, the impact of treatment on disease-free survival is analyzed. Figure 4 shows the forest plot for disease-free survival. It is clearly evident from Figure 4 that taking the OR as the outcome measure, the disease-free survival analysis of 8 LLND + ME combination therapy and non-LLND therapy obtains degree of freedom (df) = 8.64, $I^2 = 24.20\%$, $P = 0.28$, and the OR for patient survival is calculated using a fixed-effect model due to low heterogeneity among the study groups. Meta-analysis reveals that patients treated with LLND + ME have better survival than those treated with non-LLND, with an OR of 0.26 and a 95% confidence interval (CI) of (−0.05, 0.57).

Figure 5 shows the Galbraith heterogeneity test plot for disease-free survival. It is clearly evident from Figure 5 that the heterogeneity test is performed for the data on the effect of disease-free survival.

Figure 6 shows the Labbe heterogeneity test plot for disease-free survival. It is clearly evident from Figure 6 that the data are tenable and have reference similarity among each study.

Figure 7 shows the assessment plot of bias risk for disease-free survival. It is clearly evident from Figure 7 that the included literature has good stability.
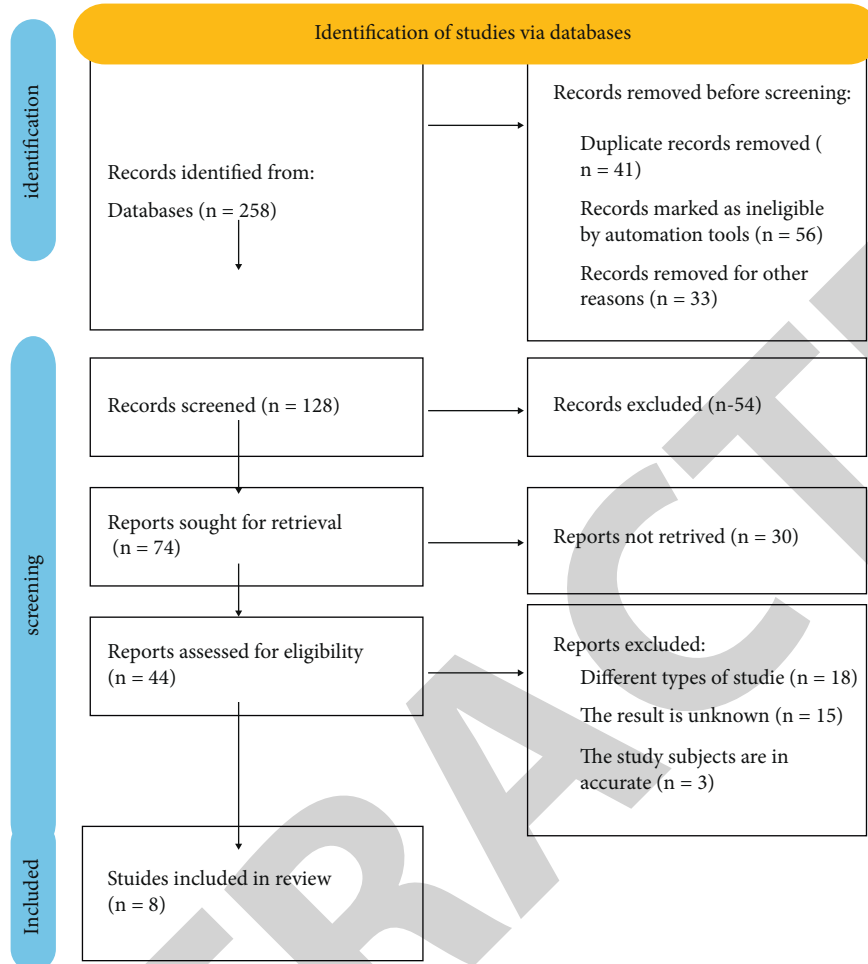
Figure 1: Flow chart of literature search.

Table 1: Basic information of included literature.

Author	Year	Treatment method	Case
Akiyoshi [11]	2014	LLND + ME	38
Fujita [12]	2017	LLND + ME	351
Georgiou [13]	2017	LLND + ME	17
Lee [14]	2019	LLND + ME	37
Matsuda [15]	2018	LLND + ME	32
Ogura [16]	2017	LLND + ME	107
Oki [17]	2019	LLND + ME	215
Yang [18]	2020	LLND + ME	34

4.4. Meta-analysis of Total Complications. For 8 articles on LLND + ME combination therapy versus non-LLND for low rectal cancer, the impact of treatment on overall complications is analyzed. Figure 8 shows the forest plot of total complications. It is clearly evident from Figure 8 that taking OR as the outcome measure, the analysis of total complications in 8 LLND + ME combined treatment versus non-LLND treatment obtains df = 6.68, $I^2 = 8.46\%$, $P = 0.46$. Meta-analysis finds that patients treated with LLND + ME have fewer complications than those treated with non-LLND, with an OR of -0.24 and a 95% CI of (−0.56, 0.07),

suggesting that LLND + ME is more effective than common treatment and can reduce complications.

Figure 9 shows the Galbraith heterogeneity test plot for total complications. It is clearly evident from Figure 9 that the heterogeneity results of each study are very concentrated.

Figure 10 shows the Labbe heterogeneity test plot for total complications. It is clearly evident from Figure 10 that the data among each study are valid and had reference similarity.

Figure 11 shows the risk of bias assessment plot for total complications. It is clearly evident from Figure 11 that the results of the applied analysis model have no significant change, indicating that the included literature have good stability.

4.5. Meta-analysis of Lymph Node Metastasis. For 8 articles on LLND + ME combination therapy versus non-LLND for low rectal cancer, the effect of treatment on lymph node metastasis in patients is analyzed. Figure 12 shows the risk of bias assessment plot for total complications. It is clearly evident from Figure 12 that using OR as an outcome measure, analysis of lymph node metastasis in 8 LLND + ME combined treatment versus non-LLND treatment obtains df = 14.67, $I^2 = 52.06\%$, and $P = 0.04$, with heterogeneity
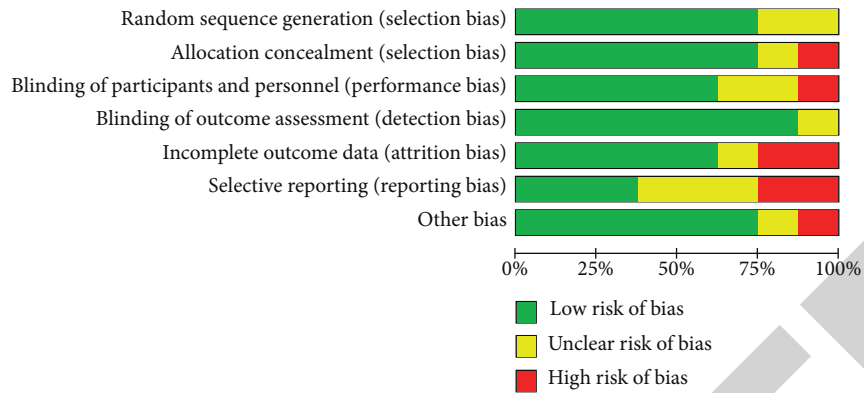
Figure 2: Risk bias evaluation plot for references generated by Rev Man 5.3 software.
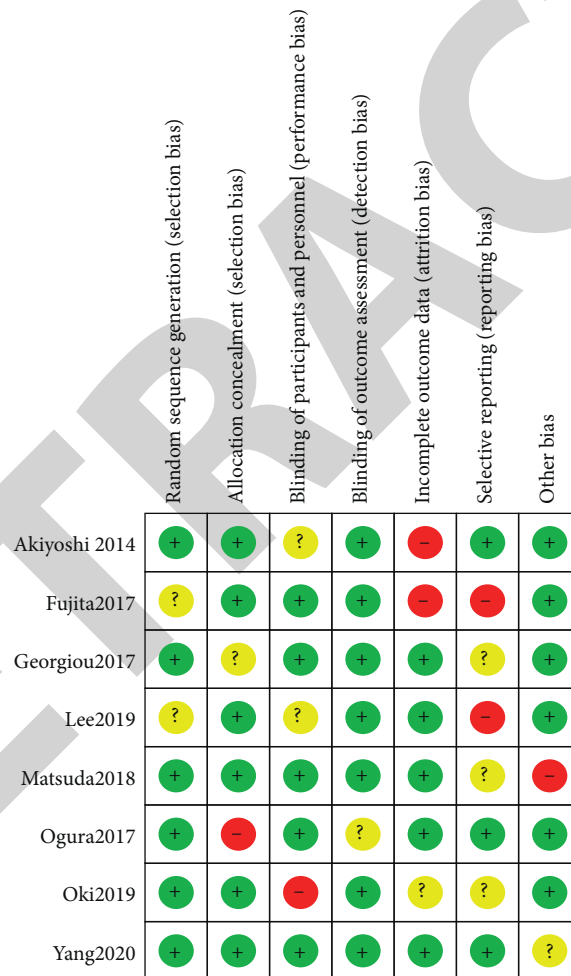

Figure 3: Summary chart of reference risk bias.

among studies. Meta-analysis finds that lymph node metastasis is less in patients treated with LLND + ME than in patients treated with non-LLND, with an OR of -0.59 and 95% CI of (−1.03, −0.14), suggesting that LLND + ME combined treatment is more effective than common treatment and can reduce lymph node metastasis.

Figure 13 shows the Galbraith heterogeneity test plot for lymph node metastasis. It is clearly evident from Figure 13

that the heterogeneity results of each study are very concentrated.

Figure 14 shows the Labbe heterogeneity test plot for lymph node metastases. It is clearly evident from Figure 14 that the data are tenable and have reference similarity among each study.

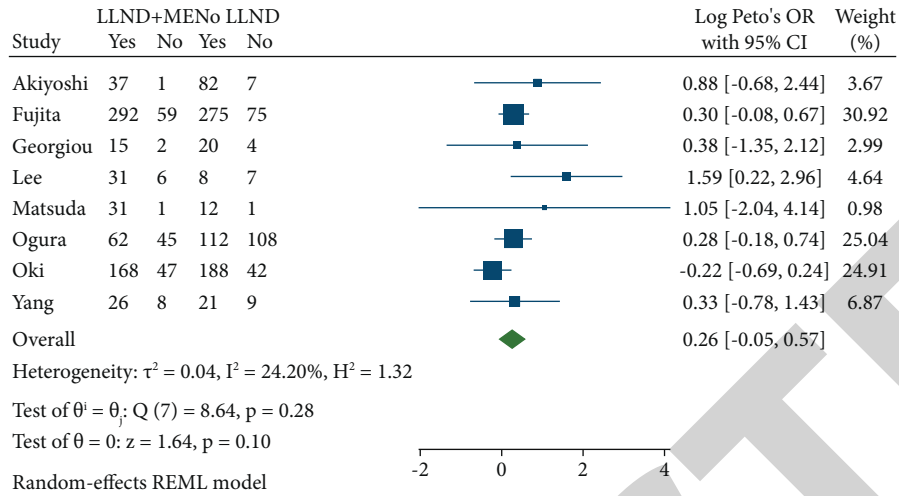Figure 15 shows the risk of bias assessment for lymph node metastasis. It is clearly evident from Figure 15 that the

Study	LLND+ME Yes	LLND+ME No	No LLND Yes	No LLND No		Log Peto's OR with 95% CI	Weight (%)
Akiyoshi	37	1	82	7		0.88 [-0.68, 2.44]	3.67
Fujita	292	59	275	75		0.30 [-0.08, 0.67]	30.92
Georgiou	15	2	20	4		0.38 [-1.35, 2.12]	2.99
Lee	31	6	8	7		1.59 [0.22, 2.96]	4.64
Matsuda	31	1	12	1		1.05 [-2.04, 4.14]	0.98
Ogura	62	45	112	108		0.28 [-0.18, 0.74]	25.04
Oki	168	47	188	42		-0.22 [-0.69, 0.24]	24.91
Yang	26	8	21	9		0.33 [-0.78, 1.43]	6.87
Overall						0.26 [-0.05, 0.57]	

Heterogeneity: $\tau^2 = 0.04$, $I^2 = 24.20\%$, $H^2 = 1.32$

Test of $\theta^i = \theta_j$: Q (7) = 8.64, p = 0.28

Test of $\theta = 0$: z = 1.64, p = 0.10

Random-effects REML model

Figure 4: Forest plot for disease-free survival.
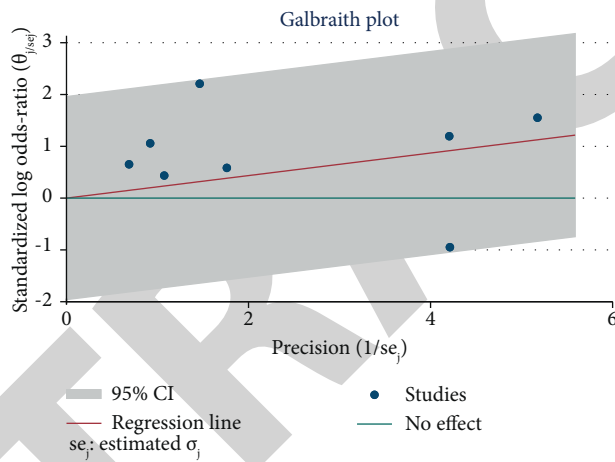
Figure 5: Galbraith heterogeneity test plot for disease-free survival.
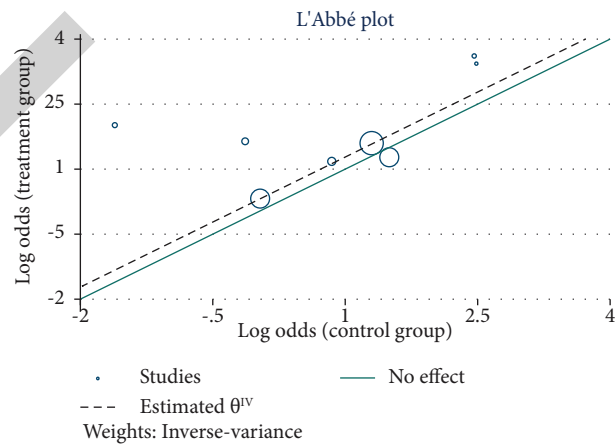
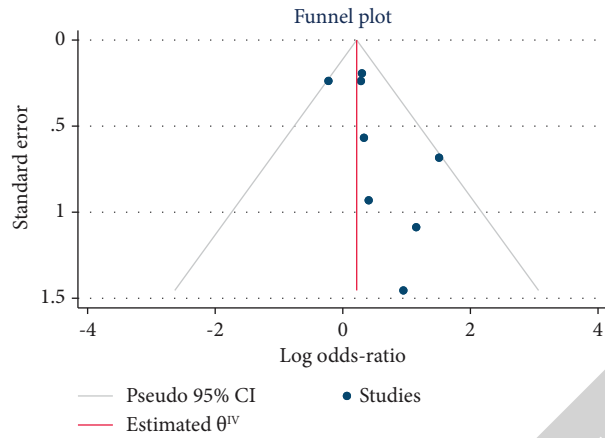Figure 6: Labbe heterogeneity test plot for disease-free survival.

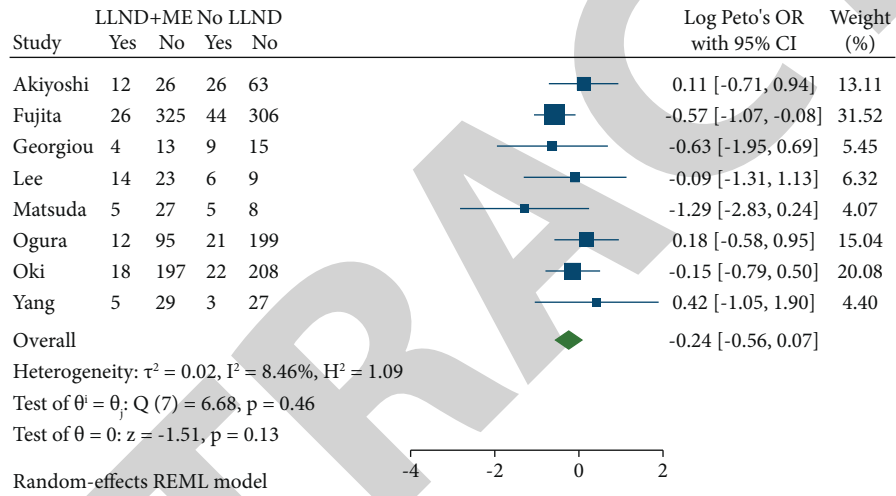Figure 7: Assessment plot of bias risk for disease-free survival.

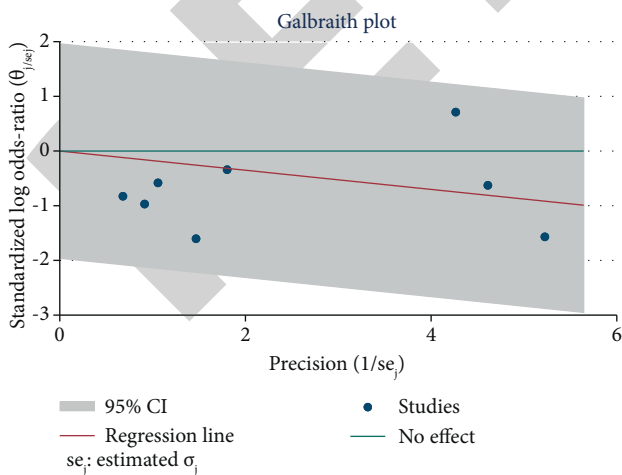Figure 8: Forest plot of total complications.

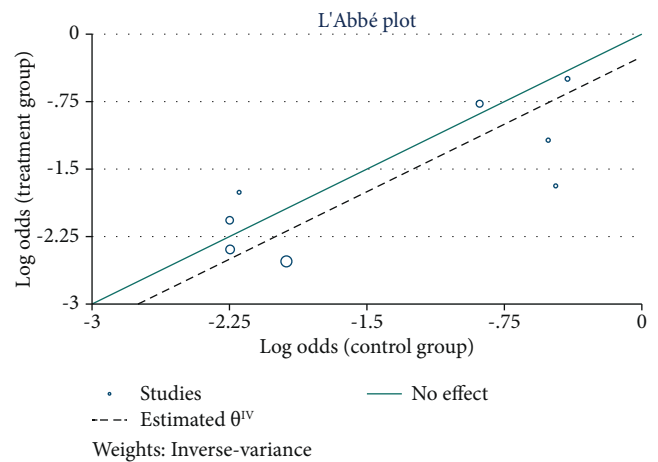Figure 9: Galbraith heterogeneity test plot for total complications.

Figure 10: Labbe heterogeneity test plot for total complications.
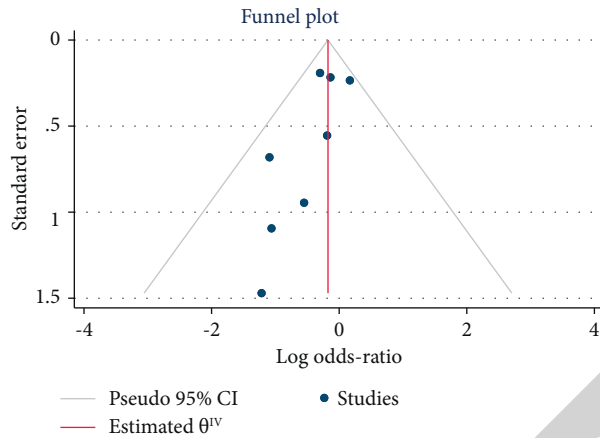
Figure 11: Risk of bias assessment plot for total complications.
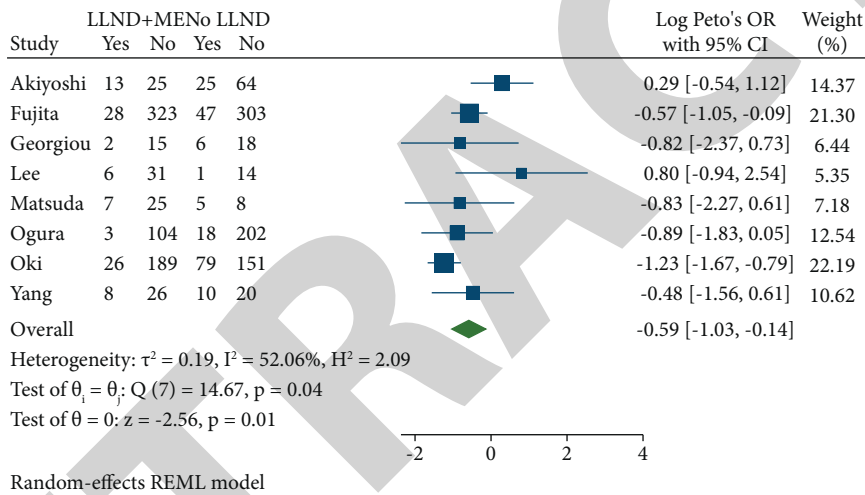

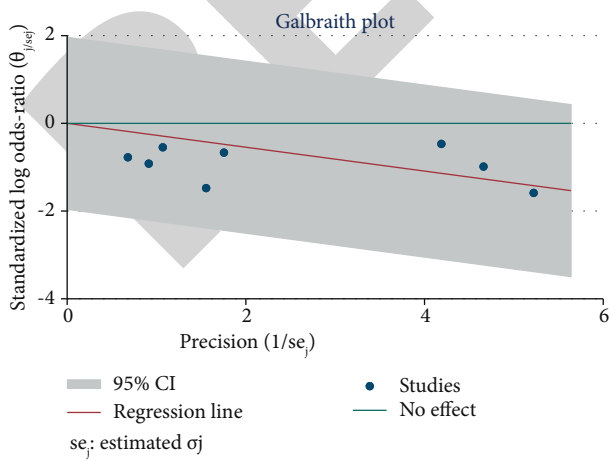Figure 12: Forest plot for lymph node metastasis.

Figure 13: Galbraith heterogeneity test plot for lymph node metastasis.
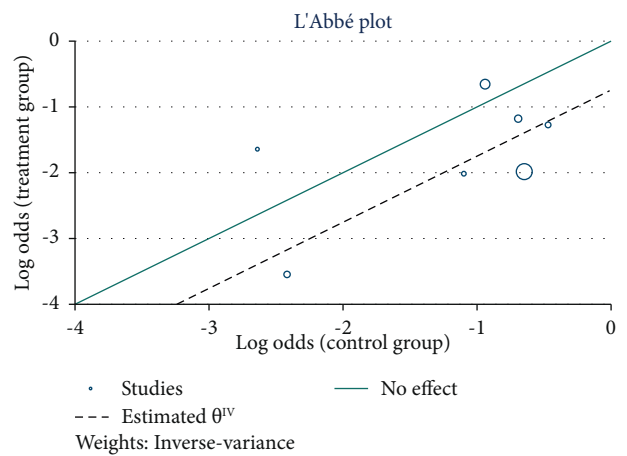

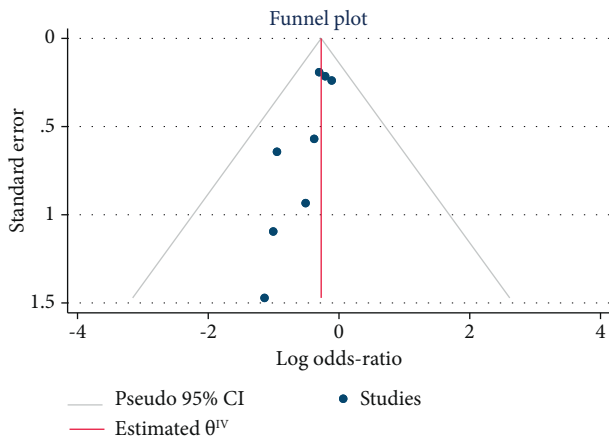Figure 14: Labbe heterogeneity test plot for lymph node metastases.

FIGURE 15: Risk of bias assessment for lymph node metastasis.

results of the applied analysis model show no significant change, indicating that the included literature has good stability.

5. Conclusion

The relevant literature of radical resection of rectal cancer combined with LLND is screened and included in the meta-analysis in order to investigate the efficacy of LLND + ME and non-LLND. Meta-analysis confirms that LLND + ME treatment is effective. Of course, certain defects are inevitable, the categories of stents in the clinical trials included in the study are not uniform, and there is no complete uniform standard for AE rating indicators. Because there are few randomized controlled trials and the outcome indicators are different, they are not included in this meta-analysis, and the level of evidence has been reduced. The subsequent study will collect more indicators, compare the differences between different treatment methods in detail, and provide more accurate reference for clinical treatment.

Data Availability

The simulation experiment data used to support the findings of this study are available from the corresponding author upon request.

Conflicts of Interest

The authors declare that they have no conflicts of interest regarding the publication of this paper.

References

[1] J. Y. Cheong, S. H. Shin, J. Kim, and S. H. Kim, "How to do robotic lateral pelvic lymph node dissection for low rectal cancer using Da Vinci-Xi system," *ANZ Journal of Surgery*, vol. 91, no. 11, pp. 2521–2523, 2021.

[2] T. Shiraishi, T. Sasaki, Y. Tsukada, K. Ikeda, Y. Nishizawa, and M. Ito, "Radiologic factors and areas of local recurrence in locally advanced lower rectal cancer after lateral pelvic lymph node dissection," *Diseases of the Colon & Rectum*, vol. 64, no. 12, pp. 1479–1487, 2021.

[3] K. Katsumata, M. Enomoto, T. Ishizaki et al., "Risk factors for surgical site infection and association of surgical site infection with survival of lower rectal cancer patients without clinical lateral pelvic lymph node metastasis (clinical Stage II/III): analysis of data from JCOG0212," *Clinical & Experimental Metastasis*, vol. 38, no. 5, pp. 459–466, 2021.

[4] K. Yamazaki, Y. Sakamoto, and H. Morohashi, "Treatment for laterally invasive rectal cancer with robot-assisted surgery after preoperative treatment, " Gan to kagaku ryoho," *Cancer & Chemotherapy*, vol. 48, no. 13, pp. 1640–1642, 2021.

[5] A. Sumii, K. Hida, Y. Sakai et al., "Establishment and validation of a nomogram for predicting potential lateral pelvic lymph node metastasis in low rectal cancer," *International Journal of Clinical Oncology*, vol. 27, pp. 1173–1179, 2022.

[6] R. Mori, M. Uemura, Y. Sekido et al., "Locally advanced rectal cancer receiving total neoadjuvant therapy combined with nivolumab: a case report and literature review," *World Journal of Surgical Oncology*, vol. 20, no. 1, pp. 166–168, 2022.

[7] Y. Chang, H. L. Liu, and M. B. Lin, "Two spaces lateral lymph node dissection based on fascia anatomy for low rectal cancer," *Zhonghua wei Chang wai ke za zhi = Chinese Journal of Gastrointestinal Surgery*, vol. 25, no. 4, pp. 315–320, 2022.

[8] Z. J. Wang and Q. Liu, "Standardization in performing regional lymph node dissection for rectum and sigmoid colon cancer," *Zhonghua wei Chang wai ke za zhi = Chinese Journal of Gastrointestinal Surgery*, vol. 25, no. 4, pp. 309–314, 2022.

[9] K. Yamada, T. Ioka, N. Suzuki, and S. Yoshida, "A resected case of advanced lower rectal cancer with neoadjuvant chemotherapy by FOLFOXIRI plus cetuximab, " Gan to kagaku ryoho," *Cancer & Chemotherapy*, vol. 48, no. 13, pp. 2067–2069, 2021.

[10] S. Zhou, Y. Jiang, W. Pei, J. Liang, and Z. Zhou, "Risk factors and prognostic significance of lateral pelvic lymph node dissection after neoadjuvant chemoradiotherapy for rectal patients with clinically suspected lateral lymph node metastasis," *BMC Surgery*, vol. 21, no. 1, pp. 441–449, 2021.

[11] T. Akiyoshi, M. Ueno, K. Matsueda et al., "Selective lateral pelvic lymph node dissection in patients with advanced low rectal cancer treated with preoperative chemoradiotherapy based on pretreatment imaging," *Annals of Surgical Oncology*, vol. 21, no. 1, pp. 189–196, 2014.

[12] S. Fujita, J. Mizusawa, Y. Kanemitsu et al., "Mesorectal excision with or without lateral lymph node dissection for clinical stage II/III lower rectal cancer (JCOG0212): a multicenter, randomized controlled, noninferiority trial," *Annals of Surgery*, vol. 266, no. 2, pp. 201–207, 2017.

[13] P. A. Georgiou, S. Mohammed Ali, G. Brown, S. Rasheed, and P. P. Tekkis, "Extended lymphadenectomy for locally advanced and recurrent rectal cancer," *International Journal of Colorectal Disease*, vol. 32, no. 3, pp. 333–340, 2017.

[14] D. Lee, T. Matsuda, K. Yamashita et al., "Significance of lateral pelvic lymph node size in predicting metastasis and prognosis in rectal cancer," *Anticancer Research*, vol. 39, no. 2, pp. 993–998, 2019.

[15] T. Matsuda, Y. Sumi, K. Yamashita et al., "Outcomes and prognostic factors of selective lateral pelvic lymph node dissection with preoperative chemoradiotherapy for locally advanced rectal cancer," *International Journal of Colorectal Disease*, vol. 33, no. 4, pp. 367–374, 2018.

[16] A. Ogura, T. Akiyoshi, T. Nagasaki et al., "Feasibility of laparoscopic total mesorectal excision with extended lateral pelvic lymph node dissection for advanced lower rectal cancer after preoperative chemoradiotherapy," *World Journal of Surgery*, vol. 41, no. 3, pp. 868–875, 2017.

[17] E. Oki, M. Shimokawa, K. Ando et al., "Effect of lateral lymph node dissection for mid and low rectal cancer: an ad-hoc analysis of the ACTS-RC (JFMC35-C1) randomized clinical trial," *Surgery*, vol. 165, no. 3, pp. 586–592, 2019.

[18] B. Yang, J. Huang, S. Zhou et al., "Laparoscopic versus open selective lateral pelvic lymph node dissection following total mesorectal excision for locally advanced low rectal cancer," *International Journal of Colorectal Disease*, vol. 35, no. 7, pp. 1301–1309, 2020.

[19] Y. Yu, M. Rashidi, B. Samali, A. M. Yousefi, and W. Wang, "Multi-image-feature-based hierarchical concrete crack identification framework using optimized SVM multi-classifiers and D–S fusion algorithm for bridge structures," *Remote Sensing*, vol. 13, no. 2, p. 240, 2021.

[20] M. F. Leung and J. Wang, "Minimax and bi-objective portfolio selection based on collaborative neurodynamic optimization," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 32, no. 7, pp. 2825–2836, 2021.

[21] Y. Wu, Q. Zhang, Y. Hu et al., "Novel binary logistic regression model based on feature transformation of XGBoost for type 2 Diabetes Mellitus prediction in healthcare systems," *Future Generation Computer Systems*, vol. 129, pp. 1–12, 2022.