INPLASY PROTOCOL

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Corresponding author:
Qiao Wu

2775310211@qq.com

Author Affiliation:
Affiliated Hospital of North Sichuan Medical College.

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None declared.

Laparoscopic versus robot techniques for the choledochal cyst: a meta-analysis

Wu, Q[1]; Zhao, D[2]; Wang, C[3].

Review question / Objective: **Recently, several studies have compared the postoperative outcomes in patients with choledochal cyst who underwent robotic laparoscopic-assisted choledochocystectomy to patients with choledochal cyst who underwent laparoscopic choledochocystectomy. But the results remained controversies. Therefore, we conducted this meta-analysis to compare the postoperative outcomes between robotic techniques and laparoscopic approach for the management of choledochal cyst.**
Information sources: **The Cochrane Central Search Library, PubMed, and Embase were used to search for related studies that compared the outcomes of laparoscopic surgery for choledochal cyst to robotic technique.**

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 23 September 2021 and was last updated on 23 September 2021 (registration number INPLASY202190082).

INTRODUCTION

Review question / Objective: **To compare the postoperative outcomes between robotic techniques and laparoscopic approach for the management of choledochal cyst through a meta-analysis.**

Condition being studied: **Recently, several studies have compared the postoperative outcomes in patients with choledochal cyst**

who underwent robotic laparoscopic-assisted choledochocystectomy to patients with choledochal cyst who underwent laparoscopic choledocho-cystectomy. But the results remained controversies. Therefore, we conducted this meta-analysis to compare the postoperative outcomes between robotic techniques and laparoscopic approach for the management of choledochal cyst.

METHODS

Participant or population: Patients with choledochal cyst.

Intervention: Robotic techniques.

Comparator: Laparoscopy.

Study designs to be included: Retrospective comparative study.

Eligibility criteria: (1) studies which compared robotic techniques to laparoscopic surgery for the treatment of choledochal cyst; (2) relevant data could be accessible in robot group and laparoscopy group; (3) studies written in English; (4) studies with full text.

Information sources: The Cochrane Central Search Library, PubMed, and Embase were used to search for related studies that compared the outcomes of laparoscopic surgery for choledochal cyst to robotic technique.

Main outcome(s): The main outcomes include blood loss, postoperative complications, operative time and length of hospital stay.

Quality assessment / Risk of bias analysis: The Newcastle-Ottawa Scale was applied for evaluating the quality of each included study.

Strategy of data synthesis: Odds ratio (OR) and its 95% confidential interval (CI) were used to assess dichotomous data, while weight mean differences (MDs) were used to assess continuous data.

Subgroup analysis: Due to the small number of original literatures included, we did not conduct subgroup analysis.

Sensitivity analysis: Due to the small number of original literatures included, we did not conduct subgroup analysis.

Country(ies) involved: China.

Keywords: robotic techniques; laparoscopy; choledochal cyst; meta-analysis.

Contributions of each author:

Author 1 - Qiao Wu - Writing the manuscript.
Email: 2775310211@qq.com
Author 2 - Dan Zhao - Data analysis.
Email: zd_5404@163.com
Author 3 - Cheng Wang - Coming up with idea.
Email: wangchengemail@126.com