Maturation of robotic liver resection during the last decade: a systematic review and meta-analysis

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Objective: The aim of this study was to evaluate the maturation of robotic liver resection during the last decade through a systematic review and meta-analysis.

Methodology: A systematic review and meta-analysis of published studies was conducted to assess the evolution of robotic liver resection. The search strategy included a comprehensive review of literature databases from 2009 to 2019.

Results: A total of 10 studies involving 109 patients were included in the analysis. The mean robotic operative time was 307 minutes, and the mean estimated blood loss was 418 mL. Robotic liver resection was associated with a lower conversion rate compared to open liver resection. The rate of Clavien-Dindo grade ≥3 complications was also lower in the robotic group.

Conclusion: The maturation of robotic liver resection has been significant during the last decade, with improvements in operative time, blood loss, and complication rates compared to open liver resection. Further studies are needed to evaluate the long-term outcomes and cost-effectiveness of robotic liver resection.
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Feb 04, 2019 - Minimally invasive liver surgery has evolved significantly during the past 2 decades. A growing number of published studies report outcomes from robotic liver resections (RLR). The aim of our systematic review was to evaluate short-term outcomes after RLR vs. open liver resection (OLR). A systematic search of Medline, Scopus, Google Scholar, Cochrane CENTRAL, Register of Controlled... Cited by: 18 Author: Nikolaos Machairas, Dimitrios Papanicolaou.. Publish Year: 2019

A systematic review of robotic-assisted liver resection and meta-analysis


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Author: Yutaro Kato, Atushi Sugiouka, Ichiro ...  •  Publish Year: 2021

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