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# The efficacy of radical antegrade modular pancreateosplenectomy: a systematic review and meta-analysis protocol

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## ABSTRACT

**Background:** Previous systematic reviews showed that radical antegrade modular pancreateosplenectomy (RAMPS) had good outcomes including the prognosis. However, recent large studies have shown opposite results, which is open to augment on RAMPS. The present study will aim to update the evidence on clinical outcomes of patients with left-sided pancreatic cancer underwent RAMPS compared to standard approach.

**Methods:** Electronic databases and registries will be searched to perform random-effect meta-analysis. Methodological quality will be assessed using the Grading of Recommendations, Assessment, Development, and Evaluation approach. The protocol will be registered (<https://www.protocols.io/>).

## ATTACHMENTS

[RAMPS SR&MA  
protocol.pdf](#)

## DOI

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## KEYWORDS

meta-analysis, morbidity, mortality, pancreatic cancer, systematic review, RAMPS

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