

Abstract

Introduction : The robotic surgery has already changed the way to perform and teach surgery. The application of robotic surgery in the HPB field is still in its exploring time.

Methods: We collected and analyzed retrospective data of patients who underwent to robotic-assisted HPB procedures. The initial outcomes, potential benefits and drawbacks were examined.

Results. The robotic approach for HPB surgery seems to be safe and feasible, the results showed a reduction in terms of estimated blood loss and open conversion rate. The morbidity rate seems to be comparable to than obtained by the laparoscopic approach. The short term oncologic outcomes confirm the potential role of robotic approach also in the treatment of malignant HPB lesions.

Conclusions: After a dedicated training, the robotic HPB surgery shows promising results also in center within initial phase of learning curve. The long term oncological outcomes are required to finally establish the place of robotic platform in the treatment of HPB lesions.

Key words

laparoscopy, robotic surgery, liver tumors, pancreatic cancer, hepatobiliary surgery