

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Surgery

**Manuscript NO:** 60411

**Title:** Role of Artificial Intelligence in Hepatobiliary and Pancreatic surgery

**Reviewer's code:** 05190259

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** United Kingdom

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**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2020-11-13 23:25

**Reviewer performed review:** 2020-11-15 08:25

**Review time:** 1 Day and 9 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

In this manuscript, the authors aim to describe the potential use of AI in perioperative care of patients undergoing HBP surgery by reviewing the existing evidence. In their description, by using AI technique, 3D preoperative visualisation, intraoperative surgical navigation method and predictive model for postoperative morbidity and recurrence will increase the safety and ease of HBP surgery. Like anesthesia and minimally invasive technique, AI might be the next landmark in the history of surgery, but at this moment, it is still an emerging technology. This manuscript reviewed several frontier literatures and showed us the application prospect of AI in HBP surgery. I think it is an innovative work. Maybe the authors could add some undergoing research in order to show us some future research directions will be better.