



PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Surgery

Manuscript NO: 41857

Title: Up-to-date intraoperative computer assisted solutions for liver surgery

Reviewer's code: 03727922

Reviewer's country: Brazil

Science editor: Fang-Fang Ji

Date sent for review: 2018-09-18

Date reviewed: 2018-09-21

Review time: 3 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Interesting manuscript entiteled "Up-to-date intraoperative computer assisted solutions for liver surgery", however needs improvement in the methods, results and description of the benefits and limitations of this study. Introduction - I believe it is necessary to be more clearer and specific



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state your scientific hypothesis and aim of your study. Material and Methods - Important to state the information on approval of a Local Ethical Committee and also be provided the number and year. Should describe clearly the selection, type of the study and also is mandatory to better explain the study performed. Where were datacollection? Search of material and data? Discussion - I suggest describing the real benefit of this study in clinical practice and also is mandatory discribe the limitations of this study. Figures - needs improvements in details and quality. If you use two pictures needs to explain all diferences.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

- The same title
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- No



PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Surgery

Manuscript NO: 41857

Title: Up-to-date intraoperative computer assisted solutions for liver surgery

Reviewer's code: 00044311

Reviewer's country: United States

Science editor: Fang-Fang Ji

Date sent for review: 2018-10-24

Date reviewed: 2018-10-26

Review time: 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Apollon and Ioannis et al. is a review article summerizing the Computer science technology efficacy to assisting modern surgeons during complex liver operations, mainly by providing image guidance with individualized 2D images and 3D models of the various anatomical and pathological structures of interest. Furthermore, additional



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color-coded or text information can be available intraoperatively for the surgical team and new intraoperative findings can be adapted on the preoperative data. Intraoperative manipulation of computer data and on-site surgical risk analysis are fissile. Finally, they conclude that real-time simple or sophisticated navigation systems can help the surgeon and his team to find his way through the hepatic “black-box”. If we want to be precise on the definition of up-to-date in intraoperative computer assisted liver surgery, we should admit that AR and intraoperative risk analysis are currently state of the art. However, from the point of view of cost effectiveness and practical application, 3D model guidance and intraoperative risk analysis, both based on systems running on common operating systems, remain the most realistic and reliable solutions. The article is interesting, informative and of educational values and is publishable in its current version.

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Surgery

Manuscript NO: 41857

Title: Up-to-date intraoperative computer assisted solutions for liver surgery

Reviewer's code: 00057659

Reviewer's country: Germany

Science editor: Fang-Fang Ji

Date sent for review: 2018-10-24

Date reviewed: 2018-10-29

Review time: 4 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a short but crucial overview of current strategies in advanced liver resection. Especially, hands-on experience of the authors and critical evaluation of the techniques is useful for the reader.



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