

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 55735

Title: Accuracy study of a binocular-stereo-vision-based navigation robot for minimally invasive interventional procedures

Reviewer's code: 02467870

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Director, Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: China

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Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-04-20 16:44

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Scientific quality	<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 Grade E: Do not publish
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a report of development of a new and interesting robot system designed for interventional pain therapies. The authors should be commended for their innovative approach to this emerging technology. I have the following suggestion to improve the clarity of the presentation. 1. Abstract: Page3 line 1, replace "issued" with "designed" Page3 line 2, replace "designed" with "developed" Change the unit cm to mm throughout the paper so that it will be consistent. Change "obviously" to "significantly" throughout the paper. Page 3 line 2. "10 mm" appears to be an error. Do you mean "100 mm"? please clarify or correct this in several places of the paper. 2. Introduction Page5 line 12, replace "machines" with "systems" Change "cannulated" to "placed" in many occasions throughout the paper. Change "cannulation" to "placement" in many occasions throughout the paper. Page 7 line 10, add "the tip of the needle" Page 7 second paragraph first sentence, Changes to "Head models were used for needle insertion targeting the foramen ovale..." 3. Discussion In regarding to the limitations of the study, the authors recognized that head movement during clinical practice will pose a major challenge to the application of this approach and to this system. Indeed, this is a matter that will determine whether this system can ever be developed and utilized in patient care. It would be very helpful to propose potential solutions to this problem.