

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 75067

Title: Indocyanine green plasma clearance rate and 99mTc-galactosyl human serum albumin single-photon emission computed tomography evaluated preoperative remnant liver

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05834960

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2022-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-16 02:59

Reviewer performed review: 2022-01-21 11:42

Review time: 5 Days and 8 Hours

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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection

Re-review	[<input checked="" type="checkbox"/>] Yes [<input 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

In combination with the previous method of evaluating liver function by relying on indocyanine green metabolic rate, this manuscript innovatively proposes to evaluate the preoperative residual liver volume according to the combination of indocyanine green plasma clearance and 99mTc GSA SPECT. Compared with the previous methods, this method is more scientific and has clinical significance. This method not only makes liver surgery more convenient, but also can safely prolong the number of cases of hepatectomy. This makes more patients with advanced liver cancer benefit. However, the number of patients in this study is relatively small, and there are no failure cases as a control. And the $\text{rICGK} \geq 0.05$ criterion appears to be safe regarding zero mortality, This has not been verified worldwide. More cases are expected to be included in the study.

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Peer-review model: Single blind

Reviewer's code: 03294368

Position: Editorial Board

Academic degree: DSc, MD, PhD

Professional title: Dean, Professor

Reviewer's Country/Territory: Georgia

Author's Country/Territory: Japan

Manuscript submission date: 2022-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-29 19:35

Reviewer performed review: 2022-01-29 20:01

Review time: 1 Hour

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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The paper is very interesting. The method for remnant liver functional evaluation provided by authors is interesting, quite simple, and easily reproducible. It will gain interest among the surgeons performing liver resection/transplantation.

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03034605

Position: Editorial Board

Academic degree: MBBS, MCh, MD

Professional title: Assistant Professor, Attending Doctor, Chief Doctor, Consultant Physician-Scientist, Surgeon

Reviewer's Country/Territory: India

Author's Country/Territory: Japan

Manuscript submission date: 2022-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-29 01:53

Reviewer performed review: 2022-01-31 06:59

Review time: 2 Days and 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" 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

The authors have conducted this retrospective study to determine the safety of institutional protocol of using anatomical and functional volume remnant KICG for selecting patients for liver resection. However, the sample size of 6 patients in marginal group is too small to draw any meaningful conclusions. I recommend the authors to continue collecting data, update the results and publish the findings when at least 50 patients are present in the marginal group. Other comments regarding the manuscript are as follows: 1. Why only 23 patients who received PVE were selected from the 150 patients operated during the study period? Other patients without PVE satisfying the criteria of marginal group can also be included in this study. 2. What is the benefit of comparing the outcomes of marginal and non-marginal groups? The aim is to study the outcomes of marginal group.

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Peer-review model: Single blind

Reviewer's code: 05908713

Position: Peer Reviewer

Academic degree: MD

Professional title: Academic Fellow, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: Japan

Manuscript submission date: 2022-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-31 15:28

Reviewer performed review: 2022-02-04 05:31

Review time: 3 Days and 14 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input checked="" type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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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

English language needs a wide check. The title does not reflect the main subject/hypothesis of the manuscript, neither the kind of the study. Abstract must be shortened and made more concise, focused on the study. In the background it should be highlighted that the value of indocyanine green clearance of the future liver remnant has not been widely validated. The definition of KICG must be written in the methods section, not in the background. Primary endpoint is not clear. Results are not powerful because of the sample size, study design, lack of clearly defined endpoints.

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Peer-review model: Single blind

Reviewer's code: 05562493

Position: Peer Reviewer

Academic degree: MD

Professional title: Director

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2022-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-29 14:16

Reviewer performed review: 2022-02-11 13:41

Review time: 12 Days and 23 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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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

Related papers have been published; small sample size