

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 56041

Title: Pre- and intraoperative predictors of acute kidney injury after liver transplantation

Reviewer's code: 05088164

Position: Associate Editor

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: Croatia

Manuscript submission date: 2020-04-18

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-05-19 17:05

Reviewer performed review: 2020-05-19 21:37

Review time: 4 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 Grade E: Do not publish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 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 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

The paper is presenting interesting data on the predictors of AKI after liver transplantation. This is a frequent complication after LT (almost half of the transplanted patients had an episode of AKI in the first 7 days after LT). The severe forms of AKI are not too frequent. The cause of AKI is multifactorial, pre-LT BMI and intraoperative volume shifts being the most important contributions for AKI. Title: The title is reflecting correctly the subject of the paper. Abstract: The abstract summarizes and reflects the most important data of the paper. Background: The Introduction describes the interest in AKI after LT and the status of LT in Croatia that would give some reason for the particularly well status of patients. The aim of the study is well presented. Methods: The authors described extensively the methods: patients, characteristics of the cohort, parameters used to predict AKI and studied. The medication after LT is presented adequately. * The authors need to erase one sentence in the Patients paragraph as the exclusion criteria are presented two times in the same paragraph. Results: The results are well presented based on the aim of the research - the most important predictors of AKI were described. There are data presented in 3 tables and one figure. Discussion. The authors interpret the results of the research appropriately and discussed in order to stress the clinical importance of the study. The authors presented in a correct manner the limitation of the study and the way these influenced the results. Conclusions: * The authors need to specify a paragraph with the conclusions as there is no such a paragraph at the end of the paper. References: Good references, well cited. Ethics statements: The study was reviewed and approved by the ethical review committee of the hospital. Retrospective study and data used after written consent for treatment. Overall, the manuscript is well written, balanced and with clinical importance for this important category of patients. The use of the English language is good; there is no need for changing this.

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 56041

Title: Pre- and intraoperative predictors of acute kidney injury after liver transplantation

Reviewer's code: 03755224

Position: Associate Editor

Academic degree: FACS, FRCS, MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: Croatia

Manuscript submission date: 2020-04-18

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-05-20 09:17

Reviewer performed review: 2020-05-27 17:03

Review time: 7 Days and 7 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
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

This is a study with an important series of liver transplants carried out in a centre of great prestige. The present work aims to assess the incidence and circumstances of acute renal failure in a series of 205 transplants performed in an experienced center. Of these 93 (45%) developed AKI after transplantation, and although 58% were stage 1, according to KDIGO criteria 5.3% underwent a kidney transplant after liver transplantation. It is obvious that there are multiple factors for this event to occur, so a careful assessment of the risk of renal disease progression after liver transplantation is required. Factors such as possible subacute disease, microalbuminuria or proteinuria, eGFR and the presence of co-morbid conditions should be studied in more detail. In this group of patients the average MELD score at the time of transplant is low 16.94 ± 7.58 . An important aspect not mentioned in the paper is the possibility of performing a renal biopsy, since this allows an assessment of the patients with AKI with a good prognosis or those in whom we may indicate a subsequent kidney transplant. Sometimes a kidney biopsy cannot be performed because of the underlying coagulopathy and the consequent increased risk of bleeding, but adequate risk stratification of patients is essential to distinguish those with a good renal prognosis from those with a poor prognosis in whom a kidney transplant is necessary. For the authors, transfusions and BMI are the most important factors (Multivariate logistic regression identified pre-LT body mass index (OR 1.1, 95%CI 1.05-1.24) and red blood cell transfusion (OR 1.66, 95%CI 1.09-2.53) as independent predictors of early post-LT AKI, but from my point of view the limitations of the work are that it is a retrospective study, and the absence of renal biopsies prevents increasing the knowledge about AKI in relation to the circumstances of transplantation

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 56041

Title: Pre- and intraoperative predictors of acute kidney injury after liver transplantation

Reviewer's code: 00077376

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Croatia

Manuscript submission date: 2020-04-18

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-05-20 01:43

Reviewer performed review: 2020-06-02 01:18

Review time: 12 Days and 23 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 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 checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

This retrospective study was performed in order to assess the frequency and pre- and intraoperative predictors of acute kidney injury within the first 7 days after liver transplantation and its impact on the short-term outcome in a single high-volume liver transplant centre in Croatia. This is well written manuscript; however, I have the following minor comments. (1) What is KDIGO criteria described in the abstract? (2) I cannot find out the definition of CKD. Actually, 21 patients had CKD preoperatively. (3) The text contains a mixture of abbreviations and full spelling terms. For example, acute kidney injury, AKI, chronic kidney disease, CKD. (4) When using a statistical expression, you should make sure that it is significant. For example, higher BMI should be significantly higher BMI. Anyway, please ask an expert to check your English.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 56041

Title: Pre- and intraoperative predictors of acute kidney injury after liver transplantation

Reviewer's code: 03755224

Position: Associate Editor

Academic degree: FACS, FRCS, MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: Croatia

Manuscript submission date: 2020-04-18

Reviewer chosen by: Ji-Hong Liu (Technical Editor)

Reviewer accepted review: 2020-07-15 07:13

Reviewer performed review: 2020-07-17 08:57

Review time: 2 Days and 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
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 present work has a series of limitations already referred to by the authors such as

being a retrospective work, the lack of description of donor parameters that are very important in relation to AKI, and histological studies. However, the authors' description of the questions posed by the reviewers has been adequate.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 05088164

Position: Associate Editor

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: Croatia

Manuscript submission date: 2020-04-18

Reviewer chosen by: Ji-Hong Liu (Technical Editor)

Reviewer accepted review: 2020-07-15 08:27

Reviewer performed review: 2020-07-18 20:21

Review time: 3 Days and 11 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 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
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 improved the manuscript according to the reviewers comments. Also, the

English language was polished. Still, I would recommend to verify the Table 2 - lines Alcohol-related and Viral diseases - why no/yes? Probably it should be without no/yes as there are the cases with Alcohol-related or viral infections. For the conclusions, I would use the same conclusions as in the abstract or in the article highlights.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 56041

Title: Pre- and intraoperative predictors of acute kidney injury after liver transplantation

Reviewer's code: 00077376

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Croatia

Manuscript submission date: 2020-04-18

Reviewer chosen by: Ji-Hong Liu (Technical Editor)

Reviewer accepted review: 2020-07-15 02:26

Reviewer performed review: 2020-07-25 02:57

Review time: 10 Days

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 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
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 revised manuscript has been corrected very well, according to the reviewers'



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