

## Response to reviewers

We sincerely thank the reviewers for their critical assessment of our work. In the following we address concerns point by point.

Reviewer 04382733: Well-written article, sound scientific quality. Minor revision was recommended, including analysis of risk factors for renal complications such as NSAID prescription. I also felt a Table should summarize the findings. I congratulate the authors on this well-written article, with sound scientific quality. I recommend including analysis of risk factors for renal complications such as NSAID prescription. I also missed a Table to visualize your findings.

Thank you for your comments. The nature of the HCUP databases does not allow users to access medication lists. That has been added to the limitation.

Table 2 has been updated to summarize the findings.

Reviewer 03034605: The authors have conducted an important study to determine the outcomes of total joint replacement in liver transplant recipients. I have following comments regarding the manuscript. 1. Please mention the inclusion and exclusion criteria in details. For example, were patients with combined liver and kidney transplants included in this study? 2. Please compare the indications of total joint replacement between the two groups. 3. Please compare important preoperative and intraoperative variables such as BMI, preoperative comorbidities, degree of immunosuppression, time interval between the liver transplant and joint replacement, performance status of the patient before joint replacement, liver and kidney functions of the patients before joint replacement, intraoperative blood loss, etc. between the two groups to overcome the potential bias by confounding factors. 4. Please cite the tables at the appropriate places in the manuscript. 5. Please mention the duration of the hospital stay of the two groups. 6. Please discuss the reasons for acute kidney injury in the Discussion section. 7. Please avoid repetition of results in the Discussion section. 8. Please mention the reasons for mortality in the study patients.

Thank you for your comments.

1. Inclusion and exclusion criteria added to the manuscript.
2. Unfortunately, the HCUP database does not include indications for procedures done.
3. The HCUP database does not include degree of immunosuppression, time interval between procedures done during different admission, laboratory results and intraoperative blood loss, these have been added to the limitation.
4. Tables have been cited.
5. Hospital stay duration has been added to the manuscript.
6. Reasons for acute kidney injury have been added.
7. Discussion has been refined.
8. Mortality reasons have been added.