

Reviewer #1:

**Scientific Quality:** Grade C (Good)

**Language Quality:** Grade B (Minor language polishing)

**Conclusion:** Major revision

**Specific Comments to Authors:** The paper is well written and the theme is clinically relevant. Statistical analyses have been well conducted My most significant concern is the very low homogeneity of patient population, being several studies evaluated together. I think Authors should clarify inclusion and exclusion criteria of the considered studies.

Thank you for your comments and advise. The inclusion and exclusion criteria have been described in the methods session. The drawback of low homogeneity of study population has been mentioned in the discussion session.

Reviewer #2:

**Scientific Quality:** Grade B (Very good)

**Language Quality:** Grade B (Minor language polishing)

**Conclusion:** Minor revision

**Specific Comments to Authors:** 1. The authors made a PMC search to find recent trend of patients with prior liver transplantation and subsequent immunotherapy. They conclude rejection risk is the major obstacle to immunotherapy use. 2. The level of description is very good with some exceptions (below). 3-1. The study include 9 patients with melanoma, therefore the title "Immunotherapy for Post-Liver Transplant Hepatocellular Carcinoma Recurrence: Where are we now?" is inappropriate. 3-2. The authors should include the key words in PubMed Search so that the reader can reconfirm. 3-3. Facing the immune-related adverse event, we often continue IO-drug with corticosteroids. That is, immunosuppression and immunostimulation are performed at the same time. It will be helpful to the reader to describe the mechanism at that time. 3-4. Despite the description of research limitations, the authors addressed figures of a comparison of two groups with different backgrounds (Pembro.'s PFS and OS are significantly better than Nibo.). It may be misleading to the reader, so it is better to delete the figures and keep it as a reference in the text, or to make a comparison using propensity score matching.

Thank you for your comments and advice.

3-1. The title has been revised accordingly.

3-2. The keywords have been included in the methods session.

3-3. Management of immune related adverse event and the underlying mechanism have been added to the discussion session.

3-4. The figures were deleted and the data was kept as a reference in the text.

1 Scientific quality: The manuscript describes a review of the immunotherapy for post-liver transplant hepatocellular carcinoma recurrence. The topic is within the scope of the WJGS. (1) Classification: Grade B and Grade C; (2) Summary of the Peer-Review Report: The authors made a PMC search to find recent trend of patients with prior liver transplantation and subsequent immunotherapy. It is well written. However, the authors should clarify inclusion and exclusion criteria of the considered studies. The questions raised by the reviewers should be answered; and (3) Format: There are 3 tables and 4 figures. (4) References: A total of 36 references are cited, including 4 references published in the last 3 years; (5) Self-cited references: There are no self-cited references; and (6) References recommend: The authors have the right to refuse to cite improper references recommended by peer reviewer(s),

especially the references published by the peer reviewer(s) themselves. If the authors found the peer reviewer(s) request the authors to cite improper references published by themselves, please send the peer reviewer's ID number to the [editorialoffice@wjgnet.com](mailto:editorialoffice@wjgnet.com). The Editorial Office will close and remove the peer reviewer from the F6Publishing system immediately. 2 Language evaluation: Classification: Grade B and Grade B. 3 Academic norms and rules: No academic misconduct was found in the Bing search. 4 Supplementary comments: This is an invited manuscript. No financial support was obtained for the study. The topic has not previously been published in the WJGS. 5 Issues raised: (1) The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor; (2) Please obtain permission for the use of picture(s). If an author of a submission is re-using a figure or figures published elsewhere, or that is copyrighted, the author must provide documentation that the previous publisher or copyright holder has given permission for the figure to be re-published; and correctly indicating the reference source and copyrights. For example, "Figure 1 Histopathological examination by hematoxylin-eosin staining (200 ×). A: Control group; B: Model group; C: Pioglitazone hydrochloride group; D: Chinese herbal medicine group. Citation: Yang JM, Sun Y, Wang M, Zhang XL, Zhang SJ, Gao YS, Chen L, Wu MY, Zhou L, Zhou YM, Wang Y, Zheng FJ, Li YH. Regulatory effect of a Chinese herbal medicine formula on non-alcoholic fatty liver disease. World J Gastroenterol 2019; 25(34): 5105-5119. Copyright ©The Author(s) 2019. Published by Baishideng Publishing Group Inc[6]". And please cite the reference source in the references list. If the author fails to properly cite the published or copyrighted picture(s) or table(s) as described above, he/she will be subject to withdrawal of the article from BPG publications and may even be held liable; and (3) The column should be minireviews. 6 Recommendation: Conditional acceptance.

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