

Thank you very much for the review

Responses:

Reviewer 1:

This review focuses on clinical studies of immunotherapy which reflect the hot research spots in the field of BTC. It has the significance of guiding clinical application of immunotherapy for biliary tract cancers. However, the review suffers one serious limits: Lacking of systematic and comprehensive comments from the author's own view. If more Summary and forecast for future research directions are added, the manuscript could be accepted for publication in this journal.

R: Thank you for the suggestion. We have now included author comments and perspectives in future directions.

Reviewer 2:

Introduction section: although the authors correctly included important papers in this setting, we believe some studies should be cited within the introduction (PMID: 33215952 ; PMID: 32806956; PMID: 33645367), only for a matter of consistency. We think it might be useful to introduce the topic of this interesting study.

R: Thank you for the suggestion. We have now included in the introduction the suggested articles.

Secondly, the authors should update the results of the recently presented TOPAZ trial assessing durvalumab, including the abstract presented at ASCO GI 2022. • The authors should expand some sections, including a more personal perspective to reflect on. For example, they could answer the following questions – in order to facilitate the understanding of this complex topic to readers: what potential does immunotherapy in BTC hold? What are the knowledge gaps and how do researchers tackle them? How do you see this area unfolding in the next 5 years? We think it would be extremely interesting for the readers. However, we think the authors should be acknowledged for their work. In fact, they correctly addressed an important topic, the methods sound good and their discussion is well balanced. We believe this article is suitable for publication in the journal although some revisions are needed. The main strengths of this paper are that it addresses an interesting and very timely question and provides a clear answer, with some limitations. We suggest a linguistic revision and the addition of some references for a matter of consistency. Moreover, the authors should better clarify some points.

R: Thank you for the suggestion. We have now included results of TOPAZ-1 presentation, and we updated the table. We have now addressed future directions in the field and knowledge gaps in the current state.