Dear editor,

On behalf of my co-authors, we thank you very much for giving us an opportunity to revise our manuscript, we appreciate the editor and the reviewer very much for their positive and constructive comments and suggestions on our manuscript entitled **"Effectiveness of Drug Interventions in Nonalcoholic Fatty Liver Disease: A Network Meta-analysis "(NO: 67908).**

Those comments are all valuable and very helpful for revising and improving our review reports on this topic, as well as the important guiding significance to our future researches. Based on these comments and suggestions, we have made careful modifications on the original manuscript, which we hope meet with approval. We hope that these revisions are satisfactory and that the revised version will be acceptable for publication in World Journal of Diabetes. Below you will find our point-by-point responses to the reviewers' comments.

We would like to express our great appreciation to you and the reviewer for your comments on our paper. Looking forward to hearing from you.

Thank you and best regards.

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Response to the reviewer 1

Comment: Dear Authors, thank you for such in-depth analysis of cutting-edge problem "The treatment of nonalcoholic fatty liver disease". The manuscript describes the effectiveness of different treatment strategies for NAFLD, including the possible value of such drugs as GLP-1RAs, metformin, thiazolidinediones or SGLT2 in decreasing the biochemical parameters as HFC, alanine aminotransferase, aspartate aminotransferase, serum γ-glutamyl transferase and body weight. As the result of meta-analysis based on twenty-two eligible RCTs including 1377 participants, there is the conclusion that GLP-1RAs may be the optimum choice for most patients with NAFLD and thiazolidinediones are considered the most effective therapies in NAFLD patients with histological disease activity. The manuscript is recommended by me for the publication in World Journal of Diabetes. Simultaneously, there is a lack of research data when the improving of liver parameters was supported by the liver biopsy after the treatment.

Response: Thanks very much for your positive comments! We have thoroughly searched existing database and there is indeed a lack of outcomes regarding improvement of liver histology. Hope our results could provide useful information for clinicians in clinical practice and future research direction.

Response to the reviewer 2

Comment: This review is very interesting, complete, and contains all the necessary sections with enough data. It is suitable for the remit and purpose of the journal even

if some minor revisions needed to be addressed before advice publication. - Please, focus on the rationale and significance of the study in the introduction section. You could add some sentences regarding change habits and lifestyles. - The discussion section needs to be described scientifically. Kindly frame it along the following lines: i. Main findings of the present study ii. Comparison with other studies iii. Implication and explanation of findings iv. Strengths and limitations v. Conclusion, recommendation and future direction. - Explain in short about study limitations. - In the conclusion section, please highlight the scientific/clinical relevance of your work. Please provide a clear "research message" of the importance of this paper in the scientific community.

Response: Thanks for your comments! We have revised our manuscript based on your constructive comment. Please see the revisions in "**INTRODUCTION**", "**DISCUSSION**" and "**CONCLUSION**" sections.

Response to the reviewer 3

Comment: The manuscript titled "Effectiveness of Drug Interventions in Nonalcoholic Fatty Liver Disease: A Network Meta-analysis" is a network meta-analysis evaluating effectiveness of various treatments for NAFLD from 22 eligible RCT's & 1377 participants. Overall it appears to be a well conducted and reported meta-analysis with clear cut background, objectives, information sources, search strategy, bias assessment and synthesis of results. PRISMA 2020 checklist must be followed instead

of PRISMA 2009 checklist and register name & registration number of the protocol

must be provided if the protocol has been registered.

Response: Thanks for your comments! We have followed PRISMA 2020 checklist instead of PRISMA 2009 checklist. The protocol of this review was registered on PROSPERO (ID: CRD42021250990). We also add this information in our manuscript. Please see the sentence under "**Search strategy and study selection**" section.