

Reviewer #1:

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: Dear authors, thank you for submitting your paper to the World Journal of Stem Cells. In this study, the surface markers of ADSCs-EXO were identified, and Exosomes may be effectively extracted from adipose-derived mesenchymal cells and adipose tissue. After injecting ADSCs-EXO into HF rats, it was found that LVEF, LVFS and SV of rat heart function indexes were significantly increased, suggesting that ADSCs-EXO could alleviate cardiac function in rats with heart failure. Very interesting study, the authors describe the protocol and results in great detail. I only have a couple of minor comments relating to this manuscript. Comments 1: Abbreviations should have their full name at first appearance, for example, ADSCs in abstract and text. Comments 2: The full text of the writing about ADSCs needs to be unified. Now the reviewers see that some write ADSCs, some write Adscs, and some write about ADSCS. Comments 3: For Figure 5, the NOTES mention Compared with Col group * P<0.05; Compared with HF group # (P<0.05). But * and # are not seen in this Figure. Comments 4: The CONCLUSION is not well written. This section should succinctly and cowardly present the findings and implications that are within the scope of the data you have presented in the preceding Results. You should state only conclusions that are directly supported by the evidence presented and the implications of the findings presented. Comments 6: What does the Control group on page 6 and 9 mean? According to the reviewer's understanding, it may represent the ADSCS-EXO group. Such descriptions need to be consistent throughout.

1: Thank you for bringing this to our attention. We apologize for the oversight regarding the usage of abbreviations. In the abstract and text, we will ensure that ADSCs is written in its full form upon first appearance. This will help provide clarity to the readers by clearly stating the full name of the abbreviation.

2: We appreciate your feedback regarding the inconsistency in the writing about ADSCs. We apologize for the confusion caused by using different variations. In the revised version, we will carefully unify the writing about ADSCs to maintain consistency throughout the manuscript. This includes using the correct acronym "ADSCs" consistently and ensuring that capitalization is accurate.

3: Thank you for your feedback. We appreciate your observation regarding the discrepancy in Figure 5. We apologize for any confusion caused by the mention of "*" and "#" in the figure notes without their presence in the figure itself. In light of your comment, we agree that it would be best to delete the notes mentioning "*" and "#". By doing so, we can avoid any potential confusion or misinterpretation caused by the absence of these symbols in the figure. We will make the necessary revisions to the manuscript accordingly and remove the notes from Figure 5. This will ensure that the information presented in the figure aligns with the visual representation, providing a clear and accurate depiction of the data.

4: We acknowledge your comment on the CONCLUSION section. We apologize for any lack of clarity in presenting the findings and their implications. In the revised version, we will carefully restructure the CONCLUSION section to succinctly and objectively present the findings and implications within the scope of the data presented in the preceding Results section. We will only state conclusions that are directly supported by the evidence presented and highlight the implications of the findings.

6: Thank you for your comment and clarification. We apologize for any confusion caused by the inconsistency in the description of the Control group. You are correct in noting that the Control group refers to the group of rats that did not receive any specific treatment or intervention. In our study, using a random number system, the rats were divided into different groups. The Control group was designated as the group that did not receive any instructions or interventions, serving as a baseline comparison for evaluating the effects of the experimental intervention.

We sincerely appreciate your valuable feedback, and we will make the necessary revisions to address these concerns and improve the clarity and consistency of our manuscript. If you have any further inquiries or comments, please feel free to let us know.

Reviewer #2:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: ADSCs exo has the functions of tissue repair and regeneration, inflammation inhibition and immune regulation, however, its effect on heart failure has not been confirmed. To investigate how adipose-derived mesenchymal stem cell exosomes work to treat heart failure, Wang L et al. conducted this study. They found that the secretion of mesenchymal stem cells from adipose tissue can increase ATP level, block cardiomyocyte apoptosis, and enhance the heart function of animals susceptible to heart failure. The inhibition of Bax, caspase-3 and p53 protein expression may be related to this process. The methods are properly presented, the results are presented on 2 tables and 7 figures and are clearly discussed. The author analyzed the results from many angles. The references are quite appropriate to the subject of research. Thank you for a useful and important synopsis of this important topic. The reviewer has only one suggestion: Figure 5 and Figure 6 need to be rearranged and the last figure on P13 page should belong to Figure 5. In addition, the reviewer thinks this manuscript can further benefit from grammatical revisions.

Thank you for your feedback and suggestions. We appreciate your comments on the arrangement of figures and the need for grammatical revisions. We will address these issues in the revised version of the manuscript.

Regarding Figure 5 and Figure 6, we apologize for any confusion caused by their current

arrangement. In the revised version, we will carefully rearrange the figures to ensure a logical flow and coherence. Additionally, we will make sure that the last figure on page 13 is appropriately assigned to Figure 5 according to its content and context.

We also acknowledge your suggestion regarding grammatical revisions. In the revised version, we will thoroughly review the manuscript to correct any grammatical errors and enhance its overall clarity and readability. We will pay close attention to grammar, sentence structure, and word choice to improve the quality of the writing.

Thank you once again for your valuable input. We will take your suggestions into account and make the necessary revisions to address these concerns. If you have any further comments or questions, please do not hesitate to let us know.