



## Response to Review Comments

(ESPS Manuscript NO: 03672850)

Dear editor

I am very excited to have been given the opportunity to revise our manuscript, which we now entitle, "Adipose-derived stromal cell in regenerative medicine: a mini-review" for wjgnet. We carefully considered your comments as well as those offered by the two reviewers. Herein, I explain how i revised the paper based on those comments and recommendations.

Apologize for the delay in revising the manuscript. This was due to our doing an additional experiment, as suggested by referees.

I am very much thankful to the reviewers for their deep and thorough review. I have revised my present minireview paper in the light of their useful suggestions and comments. I hope my revision has improved the paper to a level of their satisfaction. Number wise answers to their specific comments/suggestions/queries are as follows.

### **Response to Reviewer #1 Comments**

**Comment 1:** Safety issues of ADSC cells transplantations should be precisely reviewed.

**Response:** In the revised version, Safety issues of ADSC cells application was reviewed in section Introduction.

**Comment 2:** Identification of ADSC cells from different reports should be compared

**Response:** this work was performed in the revised version.



**Comment 3:** Authors should mention about the evidence that ADSC cells replaced for several tissue stem/progenitor cells.

**Response:** this work was performed in the revised version.

### **Response to Reviewer #2 Comments**

**General Comments:** In their review “Adipose-derived stromal cell in regenerative medicine: a minireview” Qomi et al. discuss applications of the adipose tissue-derived stromal vascular fraction (SVF) and specifically of adipose-derived stromal cell (ADSC) as therapeutics. The importance of the research area discussed is significant and the subject is of high novelty and innovation. Manuscript is organized relatively well and fundamental background on ADSC is discussed.

**Response:** Author is grateful to the reviewer for his positive and encouraging comments.

**Comment 1:** language polishing (both grammar and spelling) is needed. An example of grammar problems: “can expressed” Another phrase: “grafting of SVF is a safe treatment for OA that lead to any side effect and cancer” – not clear what this means at all.

**Response:** In the revised version, the said both grammar and spelling errors are corrected at all the places.

**Comment 2:** The authors discuss applications of ADSC to Colitis, Liver failure, Diabetes mellitus, Multiple sclerosis and Orthopaedic disorders. However, there are many other uses of ADSC that are clinically more advanced. This includes skin burns and lipofilling.



**Response:** Considering to this note that the issues related to the use of stem cells have extensively assessed in wound healing and plastic surgery through a large number of the review studies, we would prefer that review the studies that less attention has been paid to their apply for review writing, including fertility problem, hair loss, and salivary gland damage.

**Comment 3:** It is suggested that a display item comparing ADSC to other types of stem cells is added.

**Response:** Considering to valuable comment of dear reviewer, it was added to the revised version.

**Comment 4:** Also, provided the significant number of ADSC-based clinical trials, it is imparative that a Table with their up-to-date coverage be included

**Response:** Considering to valuable comment of dear reviewer, table was added to the revised version.

**Comment 5:** The review should also include the section on the safety of ADSC application in cancer patients. As published by the Kolonin laboratory and others, ADSC promote carcinoma progression and for that reason appear to increase the risk of cancer relapse in breast augmentation procedures.

**Response:** Considering to valuable comment of dear reviewer, it was added to the revised version.

**Comment 6:** There could also be a concern of their safety for smooth and skeletal muscle regeneration applications due to their pro-fibrotic properties, which should also be discussed.

**Response:** Considering to valuable comment of dear reviewer, it was added to the revised version.

**Comment 7:** Finally, a correction needs to be made. Unlike what authors' state, ADSC express CD34 in vivo, although they do lose it in culture. One of the original references to this: Traktuev D. et al., Circulation Research, 2008; 102, 77-85.



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**Response:** Considering to valuable comment of dear reviewer, it was corrected in the revised version.

**Dear editor,**

Finally, on my review paper as corresponding author, I had to remove one author from the author list.

Again, i appreciate all your insightful comments. I worked hard to be responsive to them.

Thank you for taking the time and energy to help us improve the paper.

I hope these changes adequately address the questions raised by the referees and will permit the manuscript to be published.

Looking forward to hearing from you soon,

Yours sincerely,

Mohsen Sheykhasan