

Peer Review File

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Review Comments

This article is interesting and gives information about the use of Mesenchymal Stem Cells (MSCs) for the treatment of Rheumatoid and Osteoarthritis. But it needs some improvement:

1. Introduction is not attractive, lacks concept, not a single information related to MSc is provided by the authors in the introduction section. Although they state this in the abstract and lines 251–364, move these lessons to the introduction section.

Response: Information regarding the use of MSCs as a therapy is included in the introduction section.

2. The pathogenesis section for both RA and OA is very long so keep it simple and concise.

Response: In this article an attempt to describe most of the pathogenesis involved in OA and RA has been made which made the Pathogenesis section a little longer. The section has been revised to reduce it.

3. The authors should first discuss MSC, followed by its mechanism of action in RA and OA. Also tell the advantages and disadvantages of MSC.

Response: Done as suggested by the reviewer and revised extensively.

4. The conclusion is too long, make it concise and highlight the main point. Include future aspects of what needs to be done or what is required.

Response: The conclusion has been changed significantly to a more concise version. Some limitations regarding MSC dosage and administration routes are included.

5. Please indicate the correct citation of Figure 1.

Response: The figure was adapted from: Leyendecker Jr., A. et. al. A Systematic Review. *Front Immunol.* 9.