

Addressing the suggestions for revision according to reviewer #2

First and foremost, we deeply appreciate the time taken to review our manuscript.

1- Regarding the change of title, the article reviews the use of fat grafting in osteoarthritis and in the literature there is evidence for the use of mesenchymal cells extracted from adipose tissue for the treatment of this pathology. Many articles do not specify the technique used to obtain these cells, there is a lack of standardization, but it is believed that regardless of the collection technique, the benefit lies in the action of these cells. We describe the collection techniques in the article to justify their use in the classification and not the use of different collection techniques in the treatment of osteoarthritis.

2- We modified the letter H of the classification as proposed. We will use Suction-assisted Lipectomy (SAL) which will cover all types of collection that involve some type of liposuction.

3- The quality of lipoaspirate is not affected using different cannula size or negative pressure in the SAL procedure, and this can be found in the literature.

4- In the article we mention that the lower abdomen and the hips region have a higher cell quality when compared to other locations; however, the cell viability does not change with the donor site. So there is a difference between donor areas when comparing cell quality.

5- As for the weighting in relation to the classification being descriptive, we really do agree with the opinion presented by the reviewer. We have adjusted the text to indicate that this is indeed a descriptive classification.

6- As previously mentioned, the article reviews the use of a fat graft in osteoarthritis. The literature provides citation of mesenchymal cells extracted from adipose tissue for the treatment of this pathology. Numerous studies do not specify the technique employed to

obtain these cells. There is a lack of standardization, which generates variance in results and makes reproducibility of protocols difficult. However, we still believe that regardless of the collection technique, the benefit, as previously introduced, lies in the potential of these cells. We aim to suggest that practitioners should be more concerned with the application of mesenchymal cells, which may be present regardless of the type of collection.

7- We thoroughly revised the manuscript to eliminate grammatical errors and inconsistencies. We apologize for this inconvenience.

We would like to thank reviewers #1 and #2 for their patience and thoughtful suggestions for the improvement of this manuscript.