

The Editor,

World Journal of Diabetes

Re: The Correlation between metabolic syndrome and obstructive sleep apnea

Manuscript Number: 38859

Dear Sir/Madam,

Attached please find the revised version with the point to point reply based on the reviewer's comments. We hope that your readership will enjoy reading it and will benefit from it. I would like to take this opportunity to thank the reviewer's and the editorial staff for their time and trust. Please feel free to contact with any questions.

Regards

Salim Surani MD

Reviewer's Comments and Response

To: Editorial Board International Journal of Molecular Sciences Title: "The Correlation Between Metabolic Syndrome and Sleep Apnea" Dear Editor, I read this manuscript and I think that: - The novelty of this review should be better outlined as compared to literature. In particular, the authors should revise the aims of their research in order to make it more interesting as compared to the amount of data from literature about this subject.

Response: We appreciate the reviewer comment and have added the description in the manuscript to accommodate those changes.

When analyzing studies, the authors should consider the variation in MS components cut-off through years. Such variation can influence results and final diagnosis of MS in SA patients. Please discuss such a point.

Response: The reviewer raised an important point. We appreciate the comment and have modified the manuscript to reflect those changes.

The authors should reduce it and be more incisive on the purposes of their research. - Inclusion and exclusion criteria for articles' selection should be better described. - A flow chart of the review should be provided in order to evaluate the criteria for selection and the exact numbers of removed articles.

Response: We appreciate the authors' comment. Explanation to above detail have been added in the manuscript and flow chart of the selected manuscript review have been added as figure 1.

Please discuss the role of inflammatory markers in OSAS as able to impair vascular function thus increasing cardiovascular risk of individuals. Please consider the paper from Ciccone MM et al. *Molecules*. 2014 Jan 29;19(2):1651-62. - The authors attempted insights into the pathogenetic mechanisms of MS-mediated OSA.

Response: We appreciate the authors' input. The inflammatory markers in OSA and its effect on vascular function and the article of Ciccone have been added to the manuscript.

Please provide a representative figure. - Table 1 and 2 are redundant. I think that they could be replaced by a table gathering the main findings from literature.

Response: Agree. We combined table 1&2 information into one table 1.

The manuscript by Castaneda et al. discusses the relationship between metabolic syndrome and sleep apnea. This is a subject matter vastly studied at the present time; the writing is clear. However, I suggest the authors to emphasize the evidence-based data related to molecular mechanisms and signaling pathways leading to endothelial dysfunction in both MS and OSA, and the factors affecting the mobilization and function of endothelial progenitor cells.

Response: Appreciate the authors' input. The information based on Castaneda et al. has been added in

the manuscript.

In addition, I think the impact of manuscript would be enhanced if the process of article selection would be illustrated by a flow chart (similar to Figure 1 in Xu S, Wan Y, Xu M, Ming J, Xing Y, An F, Ji Q. The association between obstructive sleep apnea and metabolic syndrome: a systematic review and meta-analysis. BMC pulmonary medicine 2015; 15: 105 [PMID: 26391008 PMCID: 4578823 DOI: 10.1186/s12890-015-0102-3]).

Response: Agree. We have added the flow chart of the selected article as figure 1.