

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**Manuscript NO:** 38859

**Title:** Correlation between metabolic syndrome and sleep apnea

**Reviewer's code:** 02520738

**Reviewer's country:** Italy

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-04-10

**Date reviewed:** 2018-04-13

**Review time:** 3 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

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



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in order to make it more interesting as compared to the amount of data from literature about this subject. - When analysing 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. - Introduction is too long. 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. - 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. 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.

## **INITIAL REVIEW OF THE MANUSCRIPT**

### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**Manuscript NO:** 38859

**Title:** Correlation between metabolic syndrome and sleep apnea

**Reviewer's code:** 03551035

**Reviewer's country:** Romania

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-04-23

**Date reviewed:** 2018-04-24

**Review time:** 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

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



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dysfunction in both MS and OSA, and the factors affecting the mobilization and function of endothelial progenitor cells. 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 PMID: 4578823 DOI: 10.1186/s12890-015-0102-3]).

#### **INITIAL REVIEW OF THE MANUSCRIPT**

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- ☐ Plagiarism
- ☐ No