Reviewer's report

Title: Non-significant association between -330 T/G polymorphism in interleukin-2 gene and chronic periodontitis: findings from a meta-analysis

Version: 1 Date: 03 Nov 2019

Reviewer: Ana Maria Sell

Reviewer's report:

First, I would like to thank you for your willingness to attend the previous considerations. The modifications made allowed a better understanding of your study. In this way, I made some additional considerations.

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Considerer the inclusion of more information about the polymorphism (IL2 -330 T/G) that justifies its study, just like in which region of the gene it is located, and what kind of modification causes to IL-2 expression, among other relevant information.

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As mentioned earlier, authors should be careful about the nomenclature of genes, and the correct mention in the text of a gene (IL2) or protein (IL-2) names (e.g. Background, line 48).

__________________________________________________________

In the "C" and "D" comparison, available on forest plot in supplementary material, the heterogeneity test shows $I^2 = 81\%$, compatible with the choice of a Random model. However, the OR values described for the forest plot showed values compatible with the Fixed model. Are the corresponding values described in Table 2 for Fixed or Random model?

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The desired criteria for HWE for the chosen studies need to be further described in table 1. Which p-value has been selected? Is only the study of Majumder et al. in according to the HWE? Which group was checked for HWE, cases and controls combined or just the control group?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.
Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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