

Review of: "Impact of risk factor diabetes mellitus on patients with periodontitis"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

Review of

“ Impact of risk factor diabetes mellitus on patients with periodontitis”

Thank you for the opportunity to review this paper.

Following are my suggestions;

1. Title

Grammar :

Title could be improved to read as follows, The impact of Diabetes mellitus on patients with periodontitis.

2. Abstract

The aim as described in the abstract is not clear and is not aligned to the title of the manuscript. The sentence structure is too long and requires to be reworked to correct grammar as well as align with the title. The understanding of the reviewer is that the aim should be aligned to summarize or display the impact of diabetes mellitus as a risk factor of periodontitis. This is not clear with the current aim as described in the abstract.

3. Introduction

The reference (reference number 1) to periodontal health from Lang and Bartold 2018, is a partial extraction of how periodontal health is defined. In the context of the 2017/2018 classification, it is the opinion of the reviewer that periodontal health be fully defined to include the distinction between pristine periodontal health vs health on a reduced periodontium, with specific reference to a history of periodontitis.

Consider the inclusion of Diabetes mellitus being a co-morbidity of periodontitis(1,2) as this will add wholistic understanding of the relationship between the two disease processes.

“ Periodontal treatment can have a beneficial effect on the systemic health of a patient ... Blood glucose control in

patients...” Please add reference to this paragraph.

The last paragraph of the introduction can be aligned with a definition and explanation of the comorbid relationship of these two diseases (1,2)

4. Periodontitis and diabetes mellitus

The first three paragraphs are not referenced and should have references.

Consider moving paragraphs 6 and 7 to the introduction, as it will help to define the subject of periodontitis.

5. Overall observations

The abstract can be better aligned with the title and overall text within the discussion.

The manuscript offers no new information, yet the importance of the topic supports its publication. I advise that the body of the discussion be categorized into the types of evidences available that support the relationship between these two disease processes. There is some discussion on epidemiological evidence and on intervention studies, but little or no information on the pathogenic mechanisms that underpin the relationship, this requires some expansion.

End of review.

1. Polak D, Shapira L. An update on the evidence for pathogenic mechanisms that may link periodontitis and diabetes. *J Clin Periodontol* [Internet]. 2018;45(2):150–66. Available from: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038898589&doi=10.1111%2Fjcpe.12803&partnerID=40&md5=c1c04cfc4ea82aea97c808fae5228f93>
2. Polak D, Sanui T, Nishimura F, Shapira L. Diabetes as a risk factor for periodontal disease—plausible mechanisms. *Periodontol 2000*. 2020;83(1):46–58.