Reviewer’s report

Title: Effects of nonsurgical periodontal treatment on glycated haemoglobin on type 2 diabetes patients (PARODIA 1 study): a randomized controlled trial in a sub-Saharan Africa population

Version: 0 Date: 17 Apr 2017

Reviewer: Rathna Vaithilingam

Reviewer's report:

Comments for the authors

Generally an interesting study on nonsurgical periodontal therapy on type 2 diabetics with chronic periodontitis. There are numerous grammatical errors that needs correcting.

Abstract:

1) 2 subjects in each group were excluded from the study.

Methods:

1) For patients with moderate to chronic periodontitis it is surprising that they did not require periodontal treatment in the last 6 months prior to the study. Were they on follow-up periodontal therapy for this to be assessed? Probably it should be reworded as patients were excluded if they had received periodontal treatment 6 months prior to the study.

2) References should be given for the O'Leary plaque index and the Ainamo & Bay GBI.

3) What was the reason for providing subjects with chlorhexidine in addition to povidone iodine?

4) Why was additional dental floss given to the treatment group following periodontal therapy?

5) Modified Bass technique is for toothbrushing and not interdental brushing or dental flossing.

6) Why were all participants in the treatment group only given treatment after 6 months?

7) Was any treatment given to the control group at the end of 3 months?
Results:

1) Figure 1: What do you mean by lost?

2) What was the SD for the relative reduction?

3) Did the compliance to the chlorhexidine mouthwash and its adverse event have any effect on the results?

4) Abbreviation IR needs to be mentioned in full before the abbreviation is given.

5) PD and CAL values at baseline are quite low and does not reflect patients with moderate to severe chronic periodontitis. You will need to subclassify your periodontal PPD and CAL to % of sites with <4mm, 4-6mm and >6mm to better appreciate the distribution of disease in your subjects. This needs to be discussed in your discussion section.

Discussion:

1) Most subjects were overweight. Please discuss this observation and how it may contribute to your results.

2) Discuss the limitations of the use of the 2012 CDC-AAP classification as inclusion criteria for an intervention trial.

3) Page 89, line 39-41 needs to be rephrased

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 recommend additional statistical review

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