

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 87018

Title: Establishment of models to predict factors influencing periodontitis in patients with type 2 diabetes mellitus

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02446526

Position: Associate Editor

Academic degree: FRCP, MD

Professional title: Academic Editor, Consultant Physician-Scientist, Professor, Senior Researcher

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: China

Manuscript submission date: 2023-08-08

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-08-09 19:15

Reviewer performed review: 2023-08-14 19:46

Review time: 5 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty

Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation
Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Although the manuscript concept is important there are several pitfalls in the entire work, some of which are pointed out below:

- Title:- Should have been "Factors influencing periodontitis in patients with T2DM"
- Language and style:- There are several language errors (grammar & syntax) throughout the paper such as: 'predictive effect' instead of 'predictive value' (abstract conclusion), 'random forest' instead of 'random forest plot/model' (last sentence of core tip) - which is repeated at multiple places.
- Abstract:- doesn't truly reflect the results in the main text (the important results of multivariate analysis with OR not shown)
- Introduction:- the section should have stated some previous studies with factors which had shown influence on the occurrence of periodontitis (currently these are mentioned in the discussion section) for making the rationale for this study, especially with a new statistical model (random forest plots).
- Methods:- There is no STROBE diagram showing the study flow to



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ensure transparency of the work.

offs used in the study (24 and 28 kg/M2).?

should have explained the factors excluded as dependent and independent variables in

the multivariate models

duplication of of the data in the text and tables which makes reading difficult

- The tables should have been less without separate ones for analysis and decriptive data

- There are errors in the analyses described in the tables including inappropriate use of

multivariate model without good description of variables to be

excluded from univariate models

in this section and the comparison with existing results are not

adequate. - References:- Are inadequate contrasting the results of the study.

- What is the criteria for BMI cut

- Statistical analysis

- Results:- There are a lot of

- Discussion:- Again there are repetition of the results

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02949608

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2023-08-08

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-09-12 12:39

Reviewer performed review: 2023-09-19 15:45

Review time: 7 Days and 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

As the authors mentioned in the discussion part, there were studies which investigated the influencing factors of periodontitis in T2DM patients. I suggest to rewrite the title updating it to indicate that the authors developed a predictive model by using these factors, since it is the novelty part of the paper.

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Title: Establishment of models to predict factors influencing periodontitis in patients with type 2 diabetes mellitus

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05125057

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Croatia

Author's Country/Territory: China

Manuscript submission date: 2023-08-08

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-09-21 07:14

Reviewer performed review: 2023-09-23 19:29

Review time: 2 Days and 12 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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SPECIFIC COMMENTS TO AUTHORS

The manuscript by Xu et al. is interesting and highlights the significant factors contributing to periodontitis in patients with type 2 diabetes. The authors clearly defined the inclusion and exclusion criteria for selecting patients for the study. The diagnostic criteria and method for classifying periodontitis as the contributing factors are described in detail. Although the results are presented in the tables, it is sometimes more challenging to follow all the information in the text. For example, when the text states how many patients have a certain level of education, it must be clarified that "below" and "above" refer to the high school, which is much more clearly expressed in Table 1. The presentation of data on the incidence of periodontitis in relation to the level of education requires clarification. It can be noted that 83.05%, 77.55%, and 49.52% refer to below, above, and high school education, respectively. But it refers to below, high school, and above high school education. The discussion is well-written, and the authors support most of their findings with other studies or explanations. What is missing, however, is an explanation of why the incidence of periodontitis is the lowest in obese patients and even lower than in underweight patients. Overall, the manuscript is

well-written, and the conclusion supports the findings of this study.