

To Lian-Sheng Ma,
Editorial Office Director,
Company Editor-in-Chief, Editorial Office

Dear Lian-Sheng Ma,
Thanks to reviewers' and Editors' suggestions the paper has been improved. Answers to reviewers are herein reported.

Best regards,
Giacomina Brunetti, PhD, Associate Professor,
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Reviewer #1:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: Manuscript Number: 77975 Title: Type 2 diabetes and bone fragility in children and adults This study has important guiding significance for the treatment of T2D patients with bone fragility. All these findings prompted different researchers to highlight the mechanisms leading to bone fragility, and numerous critical altered pathways have been identified and studied. In this review, the authors revised all the possible involved pathways associated to altered bone remodeling in T2D, such as Advanced glycation end products (AGEs), the senescence pathway, the Wnt/ β -catenin pathway, OPG/RANKL, osteonectin and FGF23. The authors reported in the present mini review describe the altered bone quality and the possible mechanisms underlying of its pathophysiology. However, the authors should list and compare the pathways that may be related to T2D bone remodeling, so that readers can have a clearer understanding of the involved mechanisms. Overall, I think this is a worthy study that has important implications. The manuscript can be accepted and published in World Journal of Diabetes after minor revision.

Answer: Accordingly, this reviewer's concerns the pathway related to altered bone remodeling in T2D has been listed and compared in Table 1.

Reviewer #2:

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: The authors present a good manuscript regarding type 2 diabetes and bone fragility in children and adults. In the beginning, in the introduction, it is mentioned that data from the SEARCH study show an annual increase of about 7% in the incidence of T2D among people aged 10–19 years in the USA, with increases in all ethnic groups. Why only data from the USA and not for the entire world? It is somehow discriminatory this aspect. No data about angiopathy and endothelial dysfunction common in diabetes and links with bone fragility perhaps.

Answer: The authors are grateful to this reviewer for highlighting this issue of particular interest, we improved the paper reporting in the introduction the worldwide incidence and prevalence of T2D.

According to this reviewer's suggestions, a paragraph was added about the microvascular disease in T2D bone fragility.

Reviewer #3:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Accept (General priority)

Specific Comments to Authors: The topic is important, the method is appropriate and the discussion is convincing. I would like to ask the authors to develop this study to systematic review.

Answer: The authors thank this reviewer for the positive comments on our manuscript, that we upload as review, as previously stated in the journal mail invitation, and not as

systematic review. It would have been very interesting to develop a systematic review, but at this moment it is not possible, as already from the beginning we develop the manuscript as review. The development of a systematic review requires specific items, such as the use of PRISMA guidelines and the involvement of a biomedical statistician. Both these requirements were not followed in the writing of our review. It could be a matter of development in a future paper.

Language Polishing

Authors are requested to send their revised manuscript to a professional English language editing company or a native English-speaking expert to polish the manuscript further. When the authors submit the subsequent polished manuscript to us, they must provide a new language certificate along with the manuscript.

Answer: The revised manuscript was sent to a native English-speaking expert to polish the manuscript further, and the certificate was uploaded.

(1) Science editor:

The manuscript has been peer-reviewed, and it's ready for the first decision.

Language Quality: Grade B (Minor language polishing)

Scientific Quality: Grade C (Good)

Answer: The language of the revised paper was revised by an English mother tongue professor.

(2) Company editor-in-chief:

I have reviewed the Peer-Review Report, the full text of the manuscript, the relevant ethics documents, and the English Language Certificate, all of which have met the basic publishing requirements of the World Journal of Diabetes, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors. Before final acceptance, the author(s) must add a table/figure to the manuscript. There are no restrictions on the figures (color, B/W).

Before final acceptance, when revising the manuscript, the author must supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply a new tool, the Reference Citation Analysis (RCA). RCA is an artificial intelligence technology-based open multidisciplinary citation analysis database. In it, upon obtaining search results from the keywords entered by the author, "Impact Index Per Article" under "Ranked by" should be selected to find the latest highlight articles, which can then be used to further improve an article under preparation/peer-review/revision. Please visit our RCA database for more information at: <https://www.referencecitationanalysis.com/>.

Answer: The authors are grateful to the Company Editor-in-Chief for the comments, and following his suggestions we improved the paper:

- A table and Highlight section were added in the updated manuscript
- RCA was used to update the manuscript, a useful suggestion, and new few papers were added and discussed. In fact, the original manuscript was already rich of very recent papers.