

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 77975

Title: Type 2 diabetes and bone fragility in children and adults

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05126185

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: Italy

Manuscript submission date: 2022-05-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-07-19 20:36

Reviewer performed review: 2022-07-24 05:57

Review time: 4 Days and 9 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 Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

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.

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Manuscript NO: 77975

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Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05630825

Position: Peer Reviewer

Academic degree: PhD

Professional title: Lecturer

Reviewer's Country/Territory: Romania

Author's Country/Territory: Italy

Manuscript submission date: 2022-05-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-07-19 04:18

Reviewer performed review: 2022-07-28 14:19

Review time: 9 Days and 10 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
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Conflicts-of-Interest: [] Yes [Y] No

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.

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Manuscript NO: 77975

Title: Type 2 diabetes and bone fragility in children and adults

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05123031

Position: Editorial Board

Academic degree: Doctor, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2022-05-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-07-23 12:18

Reviewer performed review: 2022-08-01 13:26

Review time: 9 Days and 1 Hour

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
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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statements

Conflicts-of-Interest: [] Yes [Y] No

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.