

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 88875

Title: Age-specific differences in the association between prediabetes and cardiovascular diseases in China: A national cross-sectional study

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: China

Manuscript submission date: 2023-10-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-10-18 04:09

Reviewer performed review: 2023-10-25 01:58

Review time: 6 Days and 21 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 Grade E: Do not publish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
Creativity or innovation 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 creativity or innovation

Scientific significance of the conclusion in 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 scientific significance
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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

I am really grateful to review this manuscript. In my opinion, this manuscript can be published once some revision is done successfully. I made one suggestion and I would like to ask your kind understanding. This study used numeric data from 46,239 prediabetes participants, applied logistic regression and identified major predictors varying across different age groups for the prediction of their cardiovascular disease (i.e., younger than vs. older than 40 years). I would argue that this is a rare achievement. However, it can be noted that the random forest outperforms logistic regression in terms of prediction and random forest variable importance and Shapley Additive Explanations (SHAP) summary plot are very effective to identify the strength and direction of association between cardiovascular disease and its major predictor. In this context, I would like to ask the authors to derive random forest variable importance and SHAP summary plot.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00504351

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-10-16

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-11-19 23:48

Reviewer performed review: 2023-11-21 08:19

Review time: 1 Day and 8 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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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

This paper titled “Age-specific differences in the association between prediabetes and cardiovascular diseases in China: A national cross-sectional study” is interesting and important for CVD prevention through prediabetes. It analyzed the data of epidemiological survey from June 2007 to May 2008 of the Chinese people, including cigarette smoking, elevated systolic blood pressure, low-density lipoprotein cholesterol, and living in rural areas and concluded that “the susceptibility to CVD is age-specific in newly-diagnosed prediabetes.” It is of great significance for preventing and controlling the incidence of CVD. It is interesting that moderate drink of alcohol has advantageous impact. If possible, would you please give more explanations or possible reasons? The authors should check their manuscript in detail avoiding some mistakes before publish, such as punctuation marks in the abbreviation list and some data in table 1 (data of women seem lost?).