

## Peer Review Report

# Review Report on The influence of climate, atmospheric pollution, and natural disasters on cardiovascular diseases and diabetes mellitus in drylands: a scoping review

Review, Public Health Rev

Reviewer: Mahdiyeh Mohammadzadeh

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### EVALUATION

#### **Q 1** Please summarize the main theme of the review.

This scoping review examines the impact of climate, atmospheric pollution, and natural disasters on cardiovascular diseases and diabetes mellitus, two common and important chronic diseases. The paper addresses an engaging topic of significant public health relevance.

#### **Q 2** Please highlight the limitations and strengths.

The paper addresses an engaging topic of significant public health relevance, which is why I would recommend it for potential publication in Public health reviews. However, there are several major concerns that need to be addressed in a revised version.

#### **Q 3** Please provide your detailed review report to the authors, structured in major and minor comments.

This scoping review examines the impact of climate, atmospheric pollution, and natural disasters on cardiovascular diseases and diabetes mellitus, two common and important chronic diseases. The paper addresses an engaging topic of significant public health relevance, which is why I would recommend it for potential publication in Public health reviews. However, there are several major concerns that need to be addressed in a revised version:

- Whenever abbreviations are used in the text for the first time, ensure they are defined. For instance, in the abstract, the initial mention of "JBI guidelines" must be accompanied by its definition.
- In the abstract section. It is best to draw a clearer picture of the study
- Please explain the classification of arid, semi-arid, and dry sub-humid lands in the Review question section, Subsection Context. (I recommend that if several indicators play a role in the classification, summarize them in a table).
- I recommend that in the review question section, you define the auxiliary question related to the costs imposed on governments due to the impact of climate variability, air pollution, and natural disasters on CVD and DM. As a result of this modification, the results, discussion, and conclusion segments also require rectification.
- You can use this recent study (<https://doi.org/10.1186/s12992-024-01040-0>) to strengthen the discussion.
- What are the strengths of your work? Please change the "Study limitation" section to "Strengths and limitations of the study".
- Please add a conclusion section.

### PLEASE COMMENT

#### **Q 4** Does the reference list cover the relevant literature adequately and in an unbiased manner?

yes

**Q 5** Does this manuscript refer only to published data? (unpublished data is not allowed for Reviews)

Yes.

**Q 6** Does the manuscript cover the issue in an objective and analytical manner

Yes.

**Q 7** Was a review on the issue published in the past 12 months?

No.

**Q 8** Does the review have international or global implications?

yes

**Q 9** Is the title appropriate, concise, attractive?

yes

**Q 10** Are the keywords appropriate?

yes

**Q 11** Is the English language of sufficient quality?

yes

**Q 12** Is the quality of the figures and tables satisfactory?

Yes.

#### QUALITY ASSESSMENT

**Q 13** Quality of generalization and summary



**Q 14** Significance to the field



**Q 15** Interest to a general audience



**Q 16** Quality of the writing



#### REVISION LEVEL

**Q 17** Please take a decision based on your comments:

Major revisions.

