

Review of: "Effect of Supplementation with Moringa Oleifera on Antioxidant and Oxidative Stress Biomarkers of Infertile Women: A Pilot Open-Label Case-Control Randomized Clinical Study"

Simin Li¹

¹ Southern Medical University

Potential competing interests: No potential competing interests to declare.

The paper investigates the effects of Moringa Oleifera supplementation on oxidative stress and antioxidant levels in infertile women. It is a pilot, open-label, case-control randomized clinical study. The main findings indicate that the supplementation had a significant impact on certain biomarkers, suggesting potential benefits in managing infertility related to oxidative stress.

The reason for recommending minor revisions (minor revisions) is mainly due to the need for more detailed descriptions in certain sections, such as the study design, participant selection criteria, and the methods of statistical analysis. Additionally, expanding on the discussion of results and their implications, along with addressing minor grammatical issues, would enhance the clarity and overall quality of the paper. The core research and findings are sound, but these improvements will make the study more robust and understandable.

- (1) Provide a more detailed description of the participant selection process. Include information on inclusion and exclusion criteria, and how these criteria impact the study's applicability and generalizability.
- (2) Clarify the randomization process used in assigning participants to different groups. Also, elaborate on the characteristics of the control group and how it helps in validating the study's results.
- (3) Offer a more comprehensive description of the Moringa Oleifera supplementation intervention. This should include dosage, frequency, and any other relevant details that ensure the intervention's replicability in future studies.
- (4) Discuss whether blinding was used in the study. If so, detail the type of blinding (single, double, etc.) and how it was implemented. If blinding was not used, discuss the potential implications of this on the study's findings.
- (5) Ensure that the outcome measures are clearly defined and relevant to the study's objectives. Discuss how these measures were chosen and their validity in assessing the impact of the intervention.
- (6) Include a justification for the sample size. Explain how it was determined and whether it's sufficient to detect a significant effect.
- (7) Expand on ethical considerations, particularly how participant safety was ensured during the study.

- (8) Elaborate on the methods used for data collection, ensuring they are clear and replicable.
- (9) Discuss the follow-up period for the study, if applicable, and justify its length.